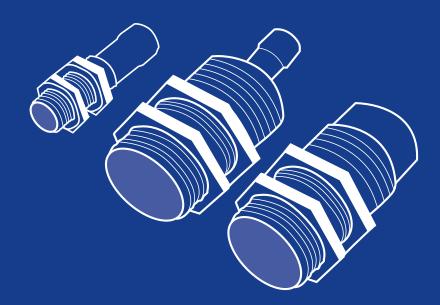
# **CATALOG** Inductive and Capacitive Sensors





#### **INDUCTIVE SENSORS**

Inductive proximity sensors generate a magnetic field from their detection faces. Whenever a detectable object moves into the sensor's field of detection, Eddy currents build up in the target and dampen the sensor's magnetic field. This effect triggers the sensor's output. Since a current in the target is needed for detection, inductive proximity sensors are uniquely suited for detection of all types of metals.

#### **ADVANTAGES**

- -Not affected by humidity and dust
- -No moving parts, no mechanical wear
- -Independent of the color of the object to detect
- -No dead zone

#### DISADVANTAGES

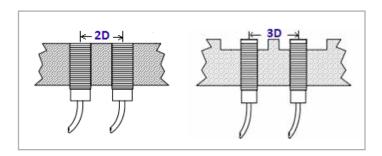
- -only detect metallic objects
- -low operating distance
- -sensitive to electromagnetic interference
- (such as electric welding, induction ovens)

#### SHIELDED MODELS - FLUSH MOUNTING

Shielded models can be installed with their sensing faces flush to the metal. The distance from opposing metal surfaces must be  $\geq$  3sn and the distance between two proximity switches (side-byside)  $\geq$  2D.

#### **UNSHIELDED MODELS - NON-FLUSH MOUNTING**

Unshielded models can be identified by their 'caps", since they have no metal housing surrounding the area of the sensing face. The sensing face must extend  $\ge 2$ sn from the metallic installation medium. The distance from opposing metal surfaces must be  $\ge 3$ sn and the distance between two adjacent proximity switches  $\ge 3$ D. The metal body leaves uncovered part of the sensing area resulting in an increased sensing distance.



Main tubular models are available in both nickel plated brass and stainless steel housing, with the active sensing face in LCP plastic.

#### **METAL FACE VERSION:**

Are available stainless steel versions (M12,M18).

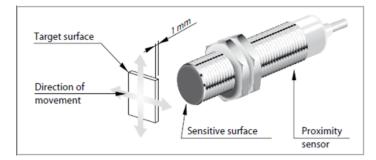
Are used in especially harsh environments and applications which are too extreme for standard sensors. They resist to abrasive media, aggressive cleaners and solvents with their rugged sensing face. IP67 protection.

#### WELD FIELD IMMUNE VERSION:

These special field immune models are ideal for welding environments and other applications where large magnetic fields are present. They are rated for reliable operation near the current line carrying 20,000 amps.

#### NAMUR VERSION:

Are available 2 wires versions (M5, M6,5, M8, M12, M18, M30). They can be used in conjunction with suitable switching amplifiers. The switch amplifier must be installed outside the explosive area. Almost all versions have IP67 mechanical protection. Nominal Switching distance (Sn) According to EN 60947-5-2 When an inductive proximity sensor is rated for sensing distance, it refers to the sensor's ability to detect the "standard detectable object" at its specified sensing distance. The "standard detectable object" is a 1mm thick square piece of ferrous iron that is in height and width the size of the proximity sensor's detection face's diameter.

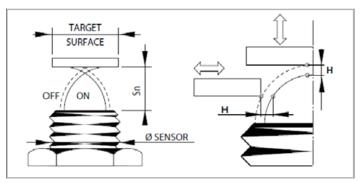


When the object to be detected is a different metal material, multiply the value of the rated operating distance for a reduction factor. The table beside shows the average reduction factors of materials according to the standards.

	Fe37	1 x Sn*
	Stainless Steel AISI316L (X2CrNiMo17-12-2, UNI EN 10088-3)	0,9 x Sn
	Brass-Bronze (CuZn33, UNI EN 12163:1999)	0,5 x Sn
	Aluminum (25°C) (EN AW-1060, UNI EN 573-3:2006)	0,4 x Sn
	Copper (Cu-DHP, UNI EN 1652:1999)	0,3 x Sn

#### **HYSTERESIS (H):**

distance between the point of switching on and the point of switching off of the trigger object. The value is a percentage of the nominal switching distance Sn.



#### **AC/DC VERSION:**

Are available 2/3-wires versions (M12, M18, M30), that operate in alternating current with voltage drop of 5 V for currents of the order of 100mA. To be able to provide a proper potential drop at the load, it is recommended to power the sensors with at least a supply voltage equal to the Voltage drop indicated (5V).

"M12/18/30 models are Diversey and ECOLAB tested"



## **Operating distance**

MODEL	M4	M5	M6,5	M8	M12	M18	M30	SQUARE
DIAMETER (mm)	4	5	6,5	8	12	18	30	8X8; 40X40
OPERATING DISTANCE (mm)	0,8	0,81,5	13	1,53	28	514	1020	1,530

## Housing

The following tables are showing the approximate housing length (mm) for the tubular inductive sensors and the absolute maximum installation limit of the mounting torque.

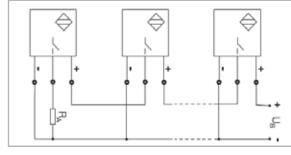
	connector	cable	connector	cable
M4		25		
M5	40	2025		
M6,5	5363	4655	5054	4044
M8	5273	4455	4857	4044
M12	6872	5864	4854	4248
M18	7382	7078	5665	4756
M30	7485	7082	5668	4956

Mounting	Flush, No Flush Mountable	Diameter	A (11 Mm)	В		
Housing Material	Stainless Steel, Nickel Brass	4 Mm	1,5 [Nm]	1,5 [Nm]		
Installation	LB A	5 Mm	1,5 [Nm]	1,5 [Nm]		
		8 Mm	2 [Nm]	4 [Nm]		
	0	12 Mm	6 [Nm]	10 [Nm]		
		18 Mm	20 [Nm]	30 [Nm]		
	<b>≥</b> µ8	30 Mm	40 [Nm]	60 [Nm]		

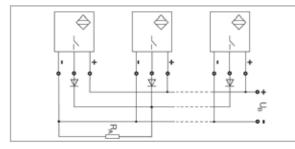
## Wires

	DESCRIPTION
	Work with sinking or sourcing devices
2-3 WIRES	Vdc, Vac and NAMUR versions
	Higher leakage current
	Must select PNP or NPN, NC or NO version
3 WIRES	10-30 Vdc version
	Low leakage current
	Programmable output
4 WIRES	PNP/NPN and NC/NO in one device

The number of inductive proximity sensors that can be connected in series or parallel is limited.



Parallel connection: the leakage current of each single sensor, when added to the other, may accumulate and drive the load even in the absence of operated switches.



This problem is more relevant in versions AC 2-wire, because of the high voltages and currents supplied to the sensor. For this type of connection you should use a 3-wire sensors working in DC.

## **Electrical Parameters**

#### NOMINAL VOLTAGE

Is the permissible voltage range in which certain safe operation of the switch is guaranteed.

#### • RESIDUAL RIPPLE

Is the maximum admissible ripple of the DC supply voltage shown as percentage to its medium value.

#### • MAX. OUTPUT CURRENT

It shows maximum output current a sensor can cope with when working steadly.

#### MIN. OUTPUT CURRENT

Is the smallest load current required for function of the switch when ON.

#### • **RESIDUAL CURRENT**

Is the current flowing through the load when a proximity switch is not conducting (open).

#### VOLTAGE DROP

Is the voltage measured across the load of a closed (conducting) sensor at load current.

#### • START UP DELAY

Is the time from when the supply voltage is applied, and the proximity switch assumes the ready state. This time may not be longer than 300 ms. During this time there must be no fault signal longer than 2 ms.

- SWITCHING FREQUENCY Refers to the maximum number of switching operations per second.
- SHORT CIRCUIT PROTECTION Is 100 A, i. e., per EN 60947-5-2 the power supply during testing in short circuit mode must be able to provide at least 100 A for a short duration. This current is prescribed in the standard in order to test.

## PROTECTION AGAINST INVERSION OF POLARITY

Available in DC supplied type, it prevents the sensor from being damage when supply cables are incorrectly connected.

• INDUCTIVE LOAD PROTECTION It protects sensor output in presence of high inductive loads. This protection is performed by a diode or zenner diode.

## INDEX

#### BASIC

- Nickel-plated Brass housing
- LCP active face
- Standard length
- Short length
- Normal and Double range Operating distance
- Operating distance: 1,5 ... 20 mm
- M6,5, M8, M12, M18, M30
- cable, M8 or M12 connector
- 2, 3 or 4 wires
- PNP, NPN, PNP/NPN, NO, NC, NO/NC
- IP67 protection

#### **INDUCTIVE AC**

- Nickel-plated Brass housing
- PA 16 active face
- Standard length
- Operating distance 2 ... 10 mm
- M12, M18, M30
- cable or M12 connector
- 20+250 Vac (50,60 Hz)
- 2 or 3 wires
- NO
- IP67 protection

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### STAINLESS STEEL

- Stainless Steel housing
- M4, M5 POM active face M6,5, M8, M12, M18, M30 LCP active face
- Standard length
- Short length
- Normal and Double range Operating distance
- Operating distance 0.8 ... 20 mm
- M4, M5, M6,5, M8, M12, M18, M30
- cable, M8 or M12 connector
- 3 wires
- PNP, NPN, NO, NC
- IP69K protection

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- Nickel-plated Brass housing
- LCP active face
- Short length
- Operating distance 0.8 ... 15 mm
- M12, M18
- cable, M8 or M12 connector
- 2 wires
- PNP, NO
- IP67 protection

## **M4**

- Flush
- Stainless steel
- Op.Dist.: 0,8 Mm
- Diameter: 4 mm
- 3 Wires - Pnp or npn, n.O.
- Cable
- 3 Wires - Namur vers.

**M5** 

- Flush

- Pnp or npn, n.O.,

1,5 Mm

N.C.

- Stainless steel

- Op.Dist.: 0,8 Mm

- Diameter: 5 mm

- Double range vers.:

 M8 connector or cable

## M6,5

- Flush, non-flush
- Stainless steel, nickel platedbrass
- Op.Dist.: 1,5...2 Mm
- Double range vers.: 2...3 Mm
- Diameter: 6,5 mm
- Standard or short housing
- 3 Wires
- Namur (2wires) vers.
- Pnp or npn, n.O., N.C.
- M8 connector or cable

## **M8**

- Flush, non-flush
- Stainless steel, nickel platedbrass
- Op.Dist.: 1,5...2 Mm
- Double range vers.: 2...3 MmDiameter: 8 mm
- Standard or short housing
- 3 Wires
- Namur (2wires) vers.
- Pnp or npn, n.O., N.C.
- M8, m12 connector or cable
- Metal face vers.
  Namur vers.

- Vac/vdc vers.

M12

brass

- Flush, non-flush

- Op.Dist.: 2...4 Mm

- Diameter: 12 mm

pnp output) wires

- Stainless steel, nickel plated-

- Double range vers.: 4...8 Mm

- Standard or short housing

- 2, 3, 4 (Programmable npn/

- Field immune vers.
- Pnp or npn, n.O., N.C.
- M12 connector or cable

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NAMUR

#### **METAL FACE**

- Stainless Steel housing
- Stainless Steel AISI 303 active face
- Stainless Steel active face .
- Standard length
- 2 ... 8 mm
- M12, M18
- M12 connector
- 3 wires
- PNP, NO
- IP67 protection

#### SQUARE

- PBT (resin) or Nickel-plated Brass housing
- Operating distance 1.5 ... 15 mm
- 40x40 mm or 8x8 mm dimension
- cable, M8 connector or Terminal Block
- 2 or 3 wires .
- PNP, PNP/NPN, NO, NC, NO/NC
- IP67

#### WELD FIELD IMMUNE

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- Stainless Steel housing
- PTFE active face
- Standard length
- Operating distance 2 ... 8 mm ÷. M12, M18
- M12 connector
- ÷ 3 wires
- PNP, NO
- IP67 protection

#### CAPACITIVE

- Nickel plated brass
- M18, M30
- Basic line NO-NC
- Capacitive A.C. (plastic housing)
- Multivoltage (SPDT relay)
- Operating distance: 5...25 mm
- Cable or M8 connector
- 2,4,6 wires
- PNP or NPN, N.O. and N.C. outputs, SPDT relay
- Delay ON or delay OFF model
- IP67 protection

**CABLES, CONNECTORS & ACCESSORIES** 

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### M18

- Flush, non-flush
- Stainless steel, nickel plated-brass
- Op.Dist.: 5...8 Mm
- Double range vers.: 8...14 Mm - Diameter: 18 mm
- Standard or short housing
- 2, 3 4 (Programmable npn/pnp output) wires
- Vac/vdc vers.
- Metal face vers.
- Field immune vers.
- Namur vers.
- Pnp or npn, n.O., N.C. - M12 connector or cable
- Capacitive d.C., N.O.-N.C. Outputs
- Capacitive a.C., 2 Wires, n.O.

## **M30**

- Flush, non-flush
- Stainless steel, nickel plated-brass
- Op.Dist.: 10...15 Mm
- Double range vers.: 15...20 Mm
- Diameter: 30 mm
- Standard or short housing - 2, 3, 4 (Programmable npn/pnp
- output) wires
- Vac/vdc vers.
- Namur vers.
- Pnp or npn, n.O., N.C.
- M12 connector or cable
  - Capacitive d.C., N.O.-N.C. Outputs

  - Capacitive a.C., 2 Wires, n.O.
  - Capacitive multivoltage with timer . relay output

## **SQUARE 40X40**

- Flush, non-flush
- Standard or short housing
- Plastic (pbt resin)
- Op.Dist.: 15...30 Mm; 7-20 mm
- (analog vers.) - Diameter: 40 mm
- 2, 3 Wires
- Vac/vdc vers.
- Analog output 4-20ma vers.
- Pnp or npn, n.O., N.C. - Terminal block

## **SQUARE 8X8**

- Flush
- Nickel-plated brass - Op.Dist.: 1,5 Mm
- Diameter: 8 mm
- 3 Wires, pnp, n.O.
- M8 connector or cable

- 50

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Nickel-plated Brass housing LCP active face Standard length Short length Normal and double range operating distance Operating distance: 1,5 ... 20 mm M6,5, M8, M12, M18, M30 cable, M8 or M12 connector 2, 3 or 4 wires PNP, NPN, PNP/NPN, NO, NC, NO/NC IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

M12/18/30 models are Diversey and ECOLAB tested



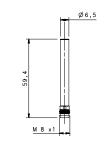


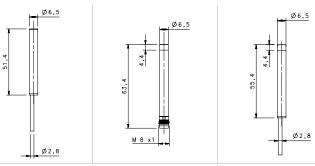




## BASIC M6.5

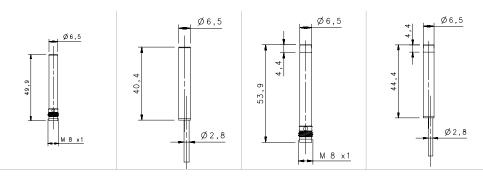






					STAN	IDARD		
				- FL	USH	NON FLUSH		
				M8 conn	cable	M8 conn	cable	
NOMINAL SWITCHING DISTANCE		1,5 mm	1,5 mm	2 mm	2 mm			
10-30 Vdc	PNP/NPN	4 wires						
10-30 Vuc	NO-NC	4 wires	order No.					
10-30 Vdc	PNP	3 wires		IS-65-A1-S1	IS-65-A1-03	IS-65-C1-S1	IS-65-C1-03	
10-30 Vac	NO	3 wires	order No.	95B066050	95B064730	95B066210	95B064890	
10-30 Vdc	PNP	3 wires		IS-65-A2-S1	IS-65-A2-03	IS-65-C2-S1	IS-65-C2-03	
10-30 Vac	NC	3 wires	order No.	95B066090	95B064770	95B066250	95B066300	
10.001/1	NPN	2		IS-65-A3-S1	IS-65-A3-03	IS-65-C3-S1	IS-65-C3-03	
10-30 Vdc	NO	3 wires	order No.	95B064970	95B064650	95B066130	95B064810	
10.001/1	NPN			IS-65-A4-S1	IS-65-A4-03	IS-65-C4-S1	IS-65-C4-03	
10-30 Vdc	NC	3 wires	order No.	95B066010	95B064690	95B066170	95B064850	
10-30 Vdc PNP NO-NC 4	4 wires							
		order No.						
0.001/1	NPN (	1						
0-30 Vdc	NO-NC	4 wires	order No.					
0.001/1		. ·						
10-30 Vdc	NO-NC	2 wires	order No.					
	NO	0						
20-250 Vac/Vdc	NO	2 wires	order No.					
	NC	0						
20-250 Vac/Vdc	NC	2 wires	order No.					
20-250 Vac	NO	2/2						
Sev UCX-U	NO	2/3 wires	order No.					
0.001/1	Analog 0-20	2						
10-30 Vdc	mA	3 wires	order No.					
NAMUR amplifier	NAMUR	2 wires	order No.					

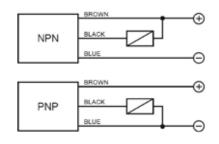
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mm	200 mA	200 mm	200 mA
Min. Output Current				
Residual Current	< 1,6 mA	< 1,6 mA	< 1,6 mA	< 1,6 mA
Voltage Drop	< 1,2 V (l=100 mA)	< 1,2 V (I=100 mA)	< 1,2 V (I=100 mA)	< 1,2 V (I=100 mA)
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reverse inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		3x 0,14 mm <sup>2</sup>		3x 0,14 mm <sup>2</sup>
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active Face	LCP	LCP	LCP	LCP
Fightening torque				
Weight - Cable Output		80 g		80 g
Weight – Connector Output	40 q		40 g	



	SH	ORT		
FL		NON FLUSH		
M8 conn	cable	M8 conn	cable	
1,5 mm	1,5 mm	2 mm	2 mm	
IS-65-B1-S1	IS-65-B1-03	IS-65-D1-S1	IS-65-D1-03	
95B066070	95B064750	95B066230	95B064910	
IS-65-B2-S1	IS-65-B2-03	IS-65-D2-S1	IS-65-D2-03	
95B066110	95B064790	95B066270	95B064950	
IS-65-B3-S1	IS-65-B3-03	IS-65-D3-S1	IS-65-D3-03	
95B064990	95B064670	95B066150	95B064830	
IS-65-B4-S1	IS-65-B4-03	IS-65-D4-S1	IS-65-D4-03	
95B066030	95B064710	95B066190	95B066190	

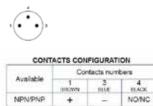
10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)           < 10%         < 10%         < 10%         < 10%           < 10%         < 10%         < 10%         < 10%           200 mA         200 mA         200 mA         200 mA                 < 10 mA         < 10 mA         < 10 mA         < 10 mA           < 1.2 V (l=100mA)         < 1,2 V (l=100mA)         < 1,2 V (l=100mA)         < 1,2 V (l=100mA)           Yellow         Yellow         Yellow         Yellow         Yellow           1000 Hz         1000 Hz         1000 Hz         1000 Hz         1000 Hz           1000 Hz         1000 Hz         1000 Hz         1000 Hz         1000 Hz           1000 Hz         1000 Hz         1000 Hz         1000 Hz         1000 Hz           1000 Hz         1000 Hz         1000 Hz         1000 Hz         1000 Hz           1000 Hz         1000 Hz         1000 Hz         1000 Hz         3%           < 50 ms         < 50 ms         < 50 ms         < 50 ms           < 3%         < 3%         < 3%         < 3%         < 3%            1000 Hz         1000 Hz         1000				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
200 mA         200 mA         200 mA         200 mA                 <10 mA	< 10%	< 10%	< 10%	< 10%
$< 10 \text{ mA}$ $< 10 \text{ mA}$ $< 10 \text{ mA}$ $< 10 \text{ mA}$ $< 1, 2 \text{ V}$ (l=100mA)           Yellow         Yellow         Yellow         Yellow           1000 Hz         1000 Hz         1000 Hz         1000 Hz $< 50 \text{ ms}$ $< 50 \text{ ms}$ $< 50 \text{ ms}$ $< 3\%$ $< 3\%$ $< 3\%$ $< 3\%$ $< 3\%$ $< 3\%$ $< 3\%$ $< 3\%$ Present (self-resetting)         Present (self-resetting)         Present (self-resetting)         Present (self-resetting)           Against polarity reversal inductive loads         Against polarity reversal inductive loads         Against polarity reversal inductive loads         Against polarity reversal inductive loads $(-25 \dots + 70 \ ^{\circ}C)$ IP67         IP67         IP67         IP67         IP67 $$ $2 \text{ m}$ $$ $2 \text{ m}$ $$ $2 \text{ m}$ $$	< 10%	< 10%	< 10%	< 10%
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	200 mA	200 mA	200 mA	200 mA
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				
Yellow         Yellow         Yellow         Yellow           1000 Hz         1000 Hz         1000 Hz         1000 Hz           <50 ms	< 10 mA	< 10 mA	< 10 mA	< 10 mA
House         House         House           1000 Hz         1000 Hz         1000 Hz         1000 Hz           <50 ms	< 1,2 V (l=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
< 50 ms< 50 ms< 50 ms< 50 ms< 3%	Yellow	Yellow	Yellow	Yellow
< 3%< 3%< 3%< 3%Present (self-resetting)Present (self-resetting)Present (self-resetting)Present (self-resetting)Against polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25 +70 °C)(-25 +70 °C)(-25 +70 °C)(-25 +70 °C)IP67IP67IP67IP672 m2 m3 x 0,14 mm²3 x 0,14 mm²Nickel-plated brassNickel-plated brassNickel-plated brassNickel-plated brassLCPLCPLCPLCPLCP80 g80 g	1000 Hz	1000 Hz	1000 Hz	1000 Hz
Present (self-resetting)Present (self-resetting)Present (self-resetting)Against polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25 +70 °C)(-25 +70 °C)(-25 +70 °C)(-25 +70 °C)IP67IP67IP67IP672 m2 m3 x 0,14 mm²3 x 0,14 mm²Nickel-plated brassNickel-plated brassNickel-plated brassNickel-plated brassLCPLCPLCPLCPLCP80 g80 g	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Against polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25 +70 °C)(-25 +70 °C)(-25 +70 °C)(-25 +70 °C)IP67IP67IP67IP672 m2 m3 x 0,14 mm²3 x 0,14 mm²Nickel-plated brassNickel-plated brassNickel-plated brassNickel-plated brassLCPLCPLCPLCP80 g80 g	< 3%	< 3%	< 3%	< 3%
inductive loads         inductive loads         inductive loads           (-25 +70 °C)         (-25 +70 °C)         (-25 +70 °C)           IP67         IP67         IP67         IP67            2 m          2 m            3 x 0,14 mm²          3 x 0,14 mm²           Nickel-plated brass         Nickel-plated brass         Nickel-plated brass         Nickel-plated brass           LCP         LCP         LCP         LCP             80 g          80 g	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
IP67         IP67         IP67         IP67            2 m          2 m            3 x 0,14 mm²          3 x 0,14 mm²           Nickel-plated brass         Nickel-plated brass         Nickel-plated brass         Nickel-plated brass           LCP         LCP         LCP         LCP            80 g          80 g				
2 m          2 m            3 x 0,14 mm²         3 x 0,14 mm²         3 x 0,14 mm²           Nickel-plated brass         Nickel-plated brass         Nickel-plated brass         Nickel-plated brass           LCP         LCP         LCP         LCP                  80 g          80 g	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
3 x 0,14 mm²          3 x 0,14 mm²           Nickel-plated brass         Nickel-plated brass         Nickel-plated brass         Nickel-plated brass           LCP         LCP         LCP         LCP                  80 g          80 g	IP67	IP67	IP67	IP67
Nickel-plated brass         Nickel-plated brass         Nickel-plated brass           LCP         LCP         LCP                 80 g		2 m		2 m
LCP         LCP         LCP         LCP                   80 g          80 g         80 g		3 x 0,14 mm <sup>2</sup>		3 x 0,14 mm <sup>2</sup>
 80g 80g	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
80 g 80 g	LCP	LCP	LCP	LCP
40 g 40 g		80 g		80 g
	40 g		40 g	





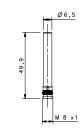
## M8 3 pole

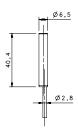
NPN/PNP



## BASIC M6.5

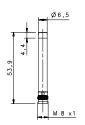


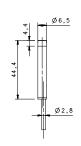




				SHORT X2 FLUSH				
				M8 conn	cable			
NOMINAL SWITCHING DISTANCE			2 mm	2 mm				
10-30 Vdc	PNP/NPN	4 wires						
10 30 440	NO-NC	4 11105	order No.					
10-30 Vdc	PNP	3 wires		IS-65-G1-S1	IS-65-G1-03			
10-30 Vuc	NO	5 WILES	order No.	95B066060	95B064740			
10-30 Vdc	PNP	3 wires		IS-65-G2-S1	IS-65-G2-03			
10-30 Vuc	NC	5 WILES	order No.	95B066100	95B064780			
10-30 Vdc	NPN	3 wires		IS-65-G3-S1	IS-65-G3-03			
10-30 Vac	NO	5 WILES	order No.	95B064980	95B064660			
10-30 Vdc	NPN	3 wires		IS-65-G4-S1	IS-65-G4-03			
10-30 Vac	NC		order No.	95B066020	95B064700			
10-30 Vdc	PNP							
10-30 vuc	NO-NC	4 WIICS	order No.					
10-30 Vdc	NPN	4 wires						
10-30 vuc	NO-NC		order No.					
10-30 Vdc	NO-NC	2 wires						
10-30 Vuc	NO-NC	2 WIIes	order No.					
20-250 Vac/Vdc	NO	2 wires						
20-230 Vac/ Vuc	NO	2 WIIes	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-230 Vac/ Vac	INC.	2 WIICS	order No.					
20-250 Vac	NO	2/3 wires						
20 230 ¥ac	110	2/ 3 991163	order No.					
10-30 Vdc	Analog 0-20	3 wires						
10-30 VUC	mA	J WILES	order No.					
NAMUR amplifier	NAMUR	2 wires						
NAMOR ampuller	NAMOR	2 WIIES	order No.					

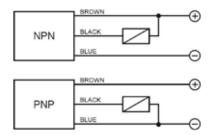
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple	< 10%	< 10%	
lysteresis	< 10%	< 10%	
fax. Output Current	200 mA	200 mA	
fin. Output Current			
Residual Current	< 10 mA	< 10 mA	
loltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
peration Led	Yellow	Yellow	
witching Frequency	500 Hz	500 Hz	
itart Up Delay	< 75 ms	< 75 ms	
epeatability	< 3%	< 3%	
hort Circuit Protection	Present (self-resetting)	Present (self-resetting)	
lectric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	
emperature Limit	(-25 +70 °C)	(-25 +70 °C)	
rotection Degree	IP67	IP67	
able Length		2 m	
able Section		3 x 0,14 mm <sup>2</sup>	
lousing Material	Nickel-plated brass	Nickel-plated brass	
ctive face	LCP	LCP	
ïghtening torque			
leight - Cable Output		80 g	
Veight - Connector Output	40 g		



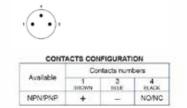


SHOR	ТХ2				
NON FLUSH					
M8 conn	cable				
3 mm	3 mm				
IS-65-H1-S1	IS-65-H1-03				
95B066220	95B064900				
IS-65-H2-S1	IS-65-H2-03				
95B066260	95B064940				
IS-65-H3-S1	IS-65-H3-03				
95B066140	95B064820				
IS-65-H4-S1	IS-65-H4-03				
95B066180	95B064860				
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)				
< 10%	< 10%				
< 10%	< 10%				
200 mA	200 mA				
< 10 mA	< 10 mA				
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)				
Yellow	Yellow				
500 Hz	500 Hz				
< 75 ms	< 75 ms				
< 3%	< 3%				
Present (self-resetting)	Present (self-resetting)				
Against polarity	Against polarity reversal				
reversal inductive loads	inductive loads				
(-25 +70 °C)	(-25 +70 °C)				
IP67	IP67				
	2 m				
	3 x 0,14 mm <sup>2</sup>				
Nickel-plated brass	Nickel-plated brass				
LCP	LCP				
	80 g				

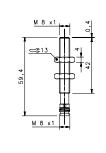
## 3 wires PNP or NPN

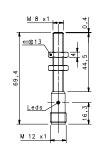


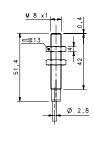
## M8 3 pole





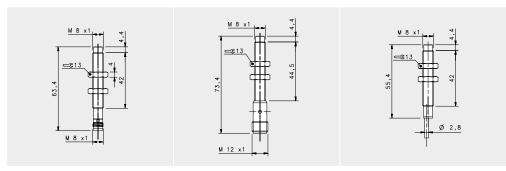






				STANDARD					
					FLUSH				
				M8 conn	M12 conn	cable			
NOMINAL SWITC	OMINAL SWITCHING DISTANCE		1,5 mm	1,5 mm	1,5 mm				
10-30 Vdc	PNP/NPN	, .							
10-30 Vac	NO-NC	4 wires	order No.						
10-30 Vdc	PNP	3 wires		IS-08-A1-S1	IS-08-A1-S2	IS-08-A1-03			
10-30 Vac	NO	3 wires	order No.	95B061141	95B061131	95B061121			
10-30 Vdc	PNP	3 wires		IS-08-A2-S1	IS-08-A2-S2	IS-08-A2-03			
10-30 Vac	NC	5 WILES	order No.	95B061171	95B061161	95B061151			
10-30 Vdc	NPN	3 wires		IS-08-A3-S1	IS-08-A3-S2	IS-08-A3-03			
10-30 Vac	NO	5 WILES	order No.	95B061081	95B061071	95B061061			
10-30 Vdc	NPN	3 wires		IS-08-A4-S1	IS-08-A4-S2	IS-08-A4-03			
10-30 Vuc	NC	5 WILES	order No.	95B061111	95B061101	95B061091			
10-30 Vdc	PNP	4 wires							
10-30 vac	NO-NC	4 wires	order No.						
10-30 Vdc	NPN	4 wires							
10-50 vuc	NO-NC	4 WIIES	order No.						
10-30 Vdc	NO-NC	2 wires							
10-30 vuc	NO-NC	2 WIIES	order No.						
20-250 Vac/Vdc	Vac/Vdc NO	2 wires							
20-230 vac/ vuc	NO	2 WIIES	order No.						
20-250 Vac/Vdc	NC	2 wires							
20-230 vac/ vac	NC	2 WIIES	order No.						
20-250 Vac	NO	2/3 wires							
20-230 Vac	NO	2/3 101163	order No.						
10-30 Vdc	Analog 0-20	3 wires							
10 30 Vuc	mA	5 WIICS	order No.						
NAMUR amplifier	NAMUR	2 wires							
NAMUK ampliner	NAMUK	NAMUK	2 WIIES	order No.					

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200mA	200mA	200mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (l=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67
Cable Length			2 m
Cable Section			3x 0,14 mm <sup>2</sup>
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output			80 g
Weight - Connector Output	35g	55g	



	STANDARD				
NON FLUSH					
M8 conn	M12 conn	cable			
2 mm	2 mm	2 mm			
IS-08-C1-S1	IS-08-C1-S2	IS-08-C1-03			
95B061541	95B061531	95B061521			
IS-08-C2-S1	IS-08-C2-S2	IS-08-C2-03			
95B061571	95B061561	95B061551			
IS-08-C3-S1	IS-08-C3-S2	IS-08-C3-03			
95B061481	95B061471	95B066410			
IS-08-C4-S1	IS-08-C4-S2	IS-08-C4-03			
95B061511	95B061501	95B066450			
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)			
< 10%	< 10%	< 10%			
< 10%	< 10%	< 10%			
200mA	200mA	200mA			
< 10 mA	< 10 mA	< 10 mA			
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow			
1000 Hz	1000 Hz	1000 Hz			
< 50 ms	< 50 ms	< 50 ms			
< 3%	< 3%	< 3%			
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)			
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads			
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)			
(-25 +/0 C)	(-25 +70 C)	(-25 +70 C)			

IP67

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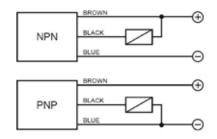
Nickel-plated brass

LCP

\* see page 5 of the Inductive Sensors Catalog

55g

## 3 wires PNP or NPN



## M12 3 pole



## M8 3 pole

IP67

2 m

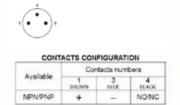
3x 0,14 mm<sup>2</sup>

Nickel-plated brass

LCP

 $^{\ast}$  see page 5 of the Inductive Sensors Catalog

80 g



IP67

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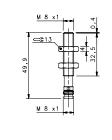
Nickel-plated brass

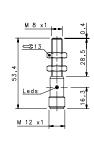
LCP

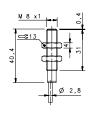
\* see page 5 of the Inductive Sensors Catalog

35g



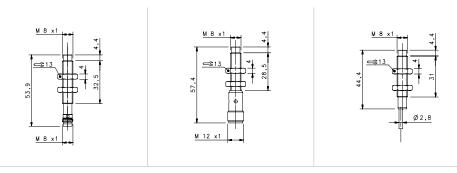






				SHORT							
				FLUSH							
			M8 conn	M12 conn	cable						
NOMINAL SWITCHING DISTANCE		1,5 mm	1,5 mm	1,5 mm							
PNP/NPN	Luiroc										
NO-NC	4 wires	order No.									
PNP	2 wiroc		IS-08-B1-S1	IS-08-B1-S2	IS-08-B1-03						
NO	5 WILES	order No.	95B066860	95B066590	95B061921						
PNP	2 wiroc		IS-08-B2-S1	IS-08-B2-S2	IS-08-B2-03						
NC	5 WILES	order No.	95B066890	95B066620	95B061951						
NPN	2 wiroc		IS-08-B3-S1	IS-08-B3-S2	IS-08-B3-03						
NO	5 WILES	order No.	95B066810	95B066530	95B061861						
NPN	3 wires		IS-08-B4-S1	IS-08-B4-S2	IS-08-B4-03						
NC		order No.	95B066830	95B066560	95B061891						
PNP	Luiroc										
NO-NC	4 WILES	order No.									
NPN	( wiroc										
NO-NC	D-NC 4 Wires	order No.									
	2 wiroc										
NO-NC	Z WITES	order No.									
NO	2 wiroc										
NO	Z WITES	order No.									
NC	2 wiroc										
INC.	2 WIIES	order No.									
NO	2/211/100	2/2 wiroc	2/2 wiroc	2/2 wiros	2/2,	2/2.4	2/2 4				
110	2/ 3 441103	order No.									
Analog 0-20	3 wires										
mA	5 WIICS	order No.									
NAMUR	2 wires										
NAMUR	2 WIICS	order No.									
	PNP/NPN NO-NC       PNP NO       PNP NC       NPN NO-NC       PNP NO-NC       NPN NO-NC       NO-NC       NO-NC       NO-NC       NO       Analog 0-20	PNP/NPN NO-NC4 wiresPNP NO3 wiresPNP NC3 wiresNPN NO3 wiresNPN NC3 wiresNPN NO-NC4 wiresNPN NO-NC4 wiresNO-NC2 wiresNO-NC2 wiresNO2 wiresNO2 wiresNO2 wiresNO2 wiresNO3 wires	PNP/NPN NO-NC     4 wires     index model order No.       PNP NO     3 wires     order No.       PNP NC     3 wires     order No.       PNP NO     3 wires     order No.       NPN NO     3 wires     order No.       NPN NC     3 wires     order No.       NPN NC     4 wires     order No.       NPN NO-NC     4 wires     order No.       NO-NC     2 wires     order No.       NO-NC     2 wires     order No.       NO     2 wires     order No.       NO     2 wires     order No.       NO     2/3 wires     order No.       Analog 0-20 mA     3 wires     order No.       NAMULR     2 wires     order No.	HING DISTANCE       1,5 mm         PNP/NPN NO-NC       4 wires          PNP NO       3 wires          PNP NC       3 wires          PNP NC       3 wires          Order No.       95B066860         PNP NC       3 wires          Order No.       95B066890         NPN NO       3 wires          Order No.       95B066810         NPN NO       3 wires          Order No.       95B066810         NPN NO-NC       4 wires          Order No.       95B066830         PNP NO-NC       4 wires          Order No.          NO-NC       2 wires          NO       2 wires	FLUSH         FLUSH           M8 conn         M12 conn           HINE DISTANCE         1,5 mm         1,5 mm           PNP/NPN NO-NC         4 wires         order No.             PNP         3 wires         order No.             PNP         3 wires              PNP         3 wires              Order No.         95B066800         95B06620         95B06620           PNP         3 wires              NO         3 wires              NPN         3 wires          95B066810         95B066500           NPN         3 wires              NC         3 wires              NPN               NO         4 wires						

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200mA	200mA	200mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (l=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67
Cable Length			2 m
Cable Section			3 x 0,14 mm <sup>2</sup>
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output			80 g
Weight - Connector Output	35g	55g	



	SHORT					
NON FLUSH						
M8 conn	M12 conn	cable				
2 mm	2 mm	2 mm				
IS-08-D1-S1	IS-08-D1-S2	IS-08-D1-03				
95B066970	95B066700	95B062321				
IS-08-D2-S1	IS-08-D2-S2	IS-08-D2-03				
95B067000	95B066720	95B062351				
IS-08-D3-S1	IS-08-D3-S2	IS-08-D3-03				
95B066920	95B066650	95B066430				
IS-08-D4-S1	IS-08-D4-S2	IS-08-D4-03				
95B066940	95B066670	95B062291				
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)				
< 10%	< 10%	< 10%				
< 10%	< 10%	< 10%				
200mA	200mA	200mA				
< 10 mA	< 10 mA	< 10 mA				
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (l=100mA)				
Yellow	Yellow	Yellow				
1000 Hz	1000 Hz	1000 Hz				
< 50 ms	< 50 ms	< 50 ms				
< 3%	< 3%	< 3%				
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)				

Against polarity reversal

inductive loads

(-25 ... +70 °C)

IP67

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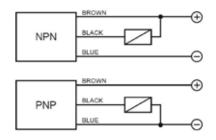
Nickel-plated brass

LCP

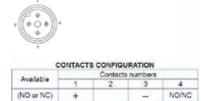
\* see page 5 of the Inductive Sensors Catalog

55g

## 3 wires PNP or NPN



## M12 3 pole



## M8 3 pole

Against polarity reversal

inductive loads

(-25 ... +70 °C)

IP67

2 m

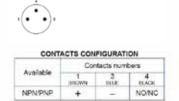
3 x 0,14 mm<sup>2</sup>

Nickel-plated brass

LCP

\* see page 5 of the Inductive Sensors Catalog

80 g



Against polarity reversal

inductive loads

(-25 ... +70 °C)

IP67

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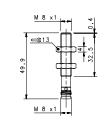
Nickel-plated brass

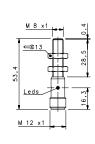
LCP

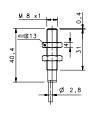
\* see page 5 of the Inductive Sensors Catalog

35g



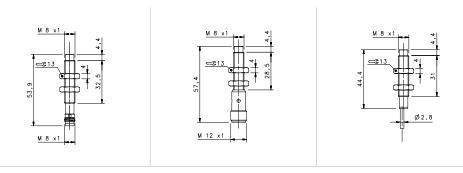






					SHORT X2			
				FLUSH				
				M8 conn	M12 conn	cable		
IOMINAL SWITCHING DISTANCE		2 mm	2 mm	2 mm				
10-30 Vdc	PNP/NPN	4 wires						
10-30 Vac	NO-NC	4 wires	order No.					
10-30 Vdc	PNP	2		IS-08-G1-S1	IS-08-G1-S2	IS-08-G1-03		
10-30 Vac	NO	3 wires	order No.	95B066850	95B066580	95B066370		
0.201/4-	PNP	2		IS-08-G2-S1	IS-08-G2-S2	IS-08-G2-03		
10-30 Vdc	NC	3 wires	order No.	95B066880	95B066610	95B066390		
0-30 Vdc	NPN	2		IS-08-G3-S1	IS-08-G3-S2	IS-08-G3-03		
10-30 Vac	NO	3 wires	order No.	95B066800	95B066520	95B066330		
0-30 Vdc	NPN	NPN 2 minor		IS-08-G4-S1	IS-08-G4-S2	IS-08-G4-03		
10-30 Vac	NC	3 wires	order No.	95B063131	95B066550	95B066350		
0-30 Vdc	PNP	4 wires						
10-50 vuc	NO-NC	4 111125	order No.					
0-30 Vdc	NPN	4 wires						
10-30 vuc	NO-NC	4 WIIES	order No.					
10-30 Vdc	NO-NC	2 wires						
10-30 vuc	NU-NC	Z WIIES	order No.					
20-250 Vac/Vdc	NO	2 wires						
20-230 vac/ vuc	NO	Z WIIES	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-230 vac/ vac	INC.		order No.					
20-250 Vac	NO	NO 2/3 wires						
20 230 Vac	110	2/ 3 991163	order No.					
10-30 Vdc	Analog 0-20	3 wires						
10-30 vuc	mA	5 WIIES	order No.					
NAMUR amplifier	NAMUR	2 wires						
Manufort ampuller	INAMOR	Z WIIES	order No.					

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
	< 10%		< 10%
Residual Ripple		< 10%	
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200mA	200mA	200mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (l=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	500 Hz	500 Hz	500 Hz
Start Up Delay	< 75 ms	< 75 ms	< 75 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +60 °C)	(-25 +60 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67
Cable Length			2 m
Cable Section			3 x 0,14 mm <sup>2</sup>
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output			80 g
Weight - Connector Output	35g	55g	



	SHORT X2	
	NON FLUSH	
M8 conn	M12 conn	cable
3 mm	3 mm	3 mm
IS-08-H1-S1	IS-08-H1-S2	IS-08-H1-03
95B066960	95B066690	95B066480
IS-08-H2-S1	IS-08-H2-S2	IS-08-H2-03
95B066990	95B063301	95B066500
IS-08-H3-S1	IS-08-H3-S2	IS-08-H3-03
95B066910	95B066640	95B066420
IS-08-H4-S1	IS-08-H4-S2	IS-08-H4-03
95B063251	95B063241	95B066460
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (l=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
500 Hz	500 Hz	500 Hz
< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m

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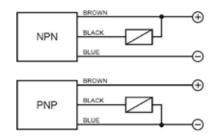
Nickel-plated brass

LCP

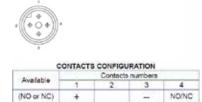
 $^{\ast}$  see page 5 of the Inductive Sensors Catalog

55g

## 3 wires PNP or NPN



## M12 3 pole



## M8 3 pole

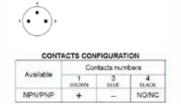
3 x 0,14 mm<sup>2</sup>

Nickel-plated brass

LCP

\* see page 5 of the Inductive Sensors Catalog

80 g



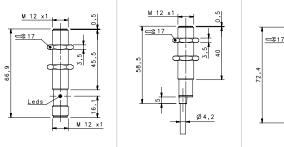
Nickel-plated brass

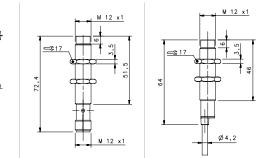
LCP

\* see page 5 of the Inductive Sensors Catalog

35g

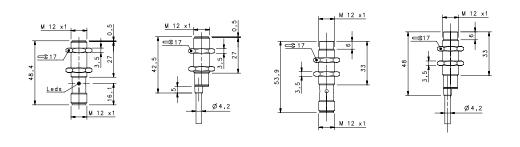






				STANDARD												
				FLI		NON I	NON FLUSH									
				M12 conn	cable	M12 conn	cable									
IOMINAL SWITCHING DISTANCE		2 mm	2 mm	4 mm	4 mm											
PNP/NPN			IS-12-A0-S2	IS-12-A0-03	IS-12-C0-S2	IS-12-C0-03										
10-30 Vdc	NO-NC	4 wires	order No.	95B064060	95B064030	95B064080	95B064040									
10, 20 )///	PNP	2		IS-12-A1-S2	IS-12-A1-03	IS-12-C1-S2	IS-12-C1-03									
10-30 Vdc	NO	3 wires	order No.	95B061251	95B061241	95B061651	95B061641									
10-30 Vdc	PNP	3 wires		IS-12-A2-S2	IS-12-A2-03	IS-12-C2-S2	IS-12-C2-03									
10-30 Vac	NC	3 wires	order No.	95B061281	95B061271	95B061681	95B061671									
10-30 Vdc	NPN	2		IS-12-A3-S2	IS-12-A3-03	IS-12-C3-S2	IS-12-C3-03									
10-30 Vac	NO	3 wires	order No.	95B061191	95B061181	95B061591	95B061581									
10-30 Vdc	NPN			IS-12-A4-S2	IS-12-A4-03	IS-12-C4-S2	IS-12-C4-03									
10-30 Vac	NC		order No.	95B061221	95B061211	95B061621	95B061611									
10-30 Vdc	PNP	4 wires														
10-30 Vuc	NO-NC	4 wires	order No.													
10-30 Vdc	NPN	4 wires														
10-30 Vuc	NO-NC	4 WIIes	order No.													
10-30 Vdc	NO-NC	2 wires		IS-12-A9-S2	IS-12-A9-03	IS-12-C9-S2	IS-12-C9-03									
10-30 Vac	NU-NC	Z WILES	order No.	95B063931	95B064100	95B064140	95B064110									
20-250 Vac/Vdc	NO	NO	NO	NO	2 wires											
20-230 vac/ vuc		2 WIIES	order No.													
20-250 Vac/Vdc	NC	2 wires														
20 200 Vac/ Vac	110	2 101103	order No.													
20-250 Vac	NO	2/3 wires														
20-230 ¥dC	110	2/ 5 991185	order No.													
10-30 Vdc	Analog 0-20	3 wires														
10-30 Vuc	mA	5 WILES	order No.													
NAMUR amplifier	NAMUR	2 wires														
NAMUK amplifter	NAMUR	2 wires	order No.													

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)
Min. Output Current	> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)
Residual Current	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)
Voltage Drop	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		2 x 0,34 mm <sup>2</sup> 3 x 0,14 mm <sup>2</sup> 4 x 0,25 mm <sup>2</sup>		2 x 0,34 mm <sup>2</sup> 3 x 0,14 mm <sup>2</sup> 4 x 0,25 mm <sup>2</sup>
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight – Cable Output		110 g		110 g
Weight - Connector Output	60 g		60 g	

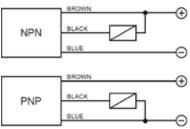


	SH	ORT		
FLU		NON FLUSH		
M12 conn	cable	M12conn	cable	
2 mm	2 mm	4 mm	4 mm	
IS-12-B1-S2	IS-12-B1-03	IS-12-D1-S2	IS-12-D1-03	
95B062051	95B062041	95B062451	95B062441	
IS-12-B2-S2	IS-12-B2-03	IS-12-D2-S2	IS-12-D2-03	
95B062081	95B062071	95B062481	95B062471	
IS-12-B3-S2	IS-12-B3-03	IS-12-D3-S2	IS-12-D3-03	
95B061991	95B061981	95B062391	95B062381	
IS-12-B4-S2	IS-12-B4-03	IS-12-D4-S2	IS-12-D4-03	
95B062021	95B062011	95B062421	95B062411	

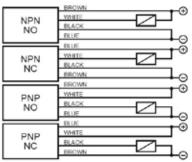
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (l=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads
(-25 +60 °C)	(-25 +70 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm <sup>2</sup>		3 x 0,14 mm <sup>2</sup>
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Induct Sensors Catalog
	110 g		110 g
60 g		60 g	

2 wires NO or NC

## 3 wires PNP or NPN



## 4 wires (PNP/NPN, NO/NC)



### M12 connector - connections



## 2 wires NO or NC

c	ONTACTS	CONFIGU	RATION	
a marine	Contacts numbers			
Available	1	2	3	4
NO	+		-	
NC			+	

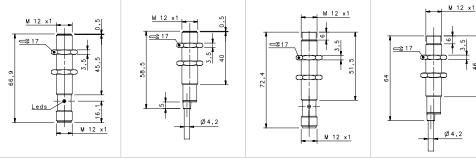
## 3 wires

	ONTACTS CONFIGURATION Contacts numbers			
Available	1	2	3	4
(NO or NC)	+		-	NOINC

## 4 wires (PNP/NPN, NO/NC)

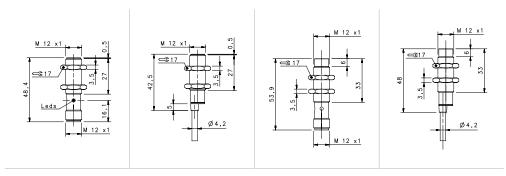
Output	Contacts numbers				
Output	- 1	2	-3	4	
NPN NO	+	NO	-	-	
NPN NC	-	NC	+	-	
PNP NO	+	+	-	NO	
PNP NC	-	+	+	NC	



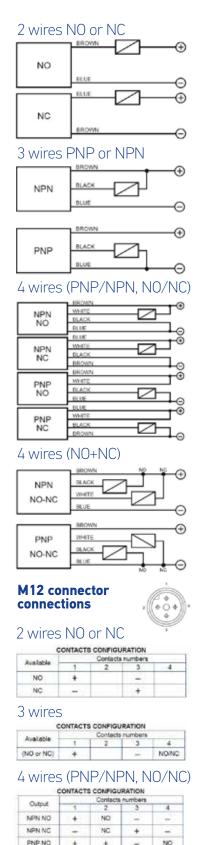


TANDADD V2

					STAND.	ARD X2	
				FL		NON F	LUSH
				M12 conn	cable	M12 conn	cable
NOMINAL SWITCI	HING DISTAN	ICE		4 r	nm	8 r	nm
10.001/1	PNP/NPN	1		IS-12-E0-S2	IS-12-E0-03	IS-12-F0-S2	IS-12-F0-03
10-30 Vdc	NO-NC	4 wires	order No.	95B067230	95B067190	95B067250	95B067210
10-30 Vdc	PNP	3 wires		IS-12-E1-S2	IS-12-E1-03	IS-12-F1-S2	IS-12-F1-03
10-30 Vac	NO	5 WILES	order No.	95B067030	95B067670	95B067020	95B067740
10-30 Vdc	PNP	3 wires		IS-12-E2-S2	IS-12-E2-03	IS-12-F2-S2	IS-12-F2-03
10-30 vuc	NC	5 WIIES	order No.	95B067640	95B067680	95B067710	95B067750
10-30 Vdc	NPN	3 wires		IS-12-E3-S2	IS-12-E3-03	IS-12-F3-S2	IS-12-F3-03
10 00 140	NO	o wires	order No.	95B067650	95B067690	95B067720	95B067760
10-30 Vdc	NPN	3 wires		IS-12-E4-S2	IS-12-E4-03	IS-12-F4-S2	IS-12-F4-03
	NC	0 111 00	order No.	95B067660	95B067700	95B067730	95B067770
10-30 Vdc	PNP	4 wires					
	NO-NC		order No.				
10-30 Vdc	NPN	4 wires					
	NO-NC		order No.				
10-30 Vdc	NO-NC	2 wires		IS-12-E9-S2	IS-12-E9-03	IS-12-F9-S2	IS-12-F9-03
			order No.	95B067240	95B067200	95B067260	95B067220
20-250 Vac/Vdc	NO	2 wires					
			order No.				
20-250 Vac/Vdc	NC	2 wires					
			order No.				
20-250 Vac	NO	2/3 wires	and a Nia				
			order No.				
10-30 Vdc	Analog 0-20 mA	3 wires	order No.				
	IIIA		order No.				
NAMUR amplifier	NAMUR	2 wires	order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Current				100 mA	100 mA	100 mA	100 mA
Min. Output Current							
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop				< 1.2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led				Yellow	Yellow	Yellow	Yellow
Switching Frequency	y			500 Hz/200 Hz (2 wires NO-NC)	500 Hz/200 Hz (2 wires NO-NC)	400 Hz/200 Hz (2 wires NO-NC)	400 Hz/200 Hz (2 wires NO-NC)
Start Up Delay	·			< 75 ms	< 75 ms	< 75 ms	< 75 ms
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length							
Cable Section					2 x 0,34 mm <sup>2</sup> 3 x 0,14 mm <sup>2</sup> 4 x 0,25 mm <sup>2</sup>		2 x 0,34 mm <sup>2</sup> 3 x 0,14 mm <sup>2</sup> 4 x 0,25 mm <sup>2</sup>
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP	LCP
Tightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Outpu	ıt						
Weight - Connector (	Dutput			60 g	60 g	60 g	60 g

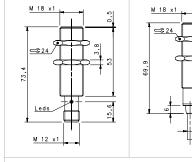


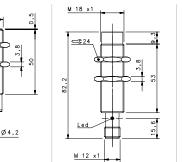
		RT X2	
FLU	JSH	NON F	LUSH
M12 con	cable	M12 conn	cable
4 mm	4 mm	8 mm	8 mm
IS-12-G1-S2	IS-12-G1-03	IS-12-H1-S2	IS-12-H1-03
95B063371	95B063361	95B063451	95B063441
IS-12-G2-S2	IS-12-G2-03	IS-12-H2-S2	IS-12-H2-03
95B063391	95B063381	95B063471	95B063461
IS-12-G3-S2	IS-12-G3-03	IS-12-H3-S2	IS-12-H3-03
95B063331	95B063321	95B063411	95B063401
IS-12-G4-S2	IS-12-G4-03	IS-12-H4-S2	IS-12-H4-03
95B063351	95B063341	95B063431	95B063421
IS-12-G5-S2	IS-12-G5-03	IS-12-H5-S2	IS-12-H5-03
95B062691	95B062681	95B062771	95B062761
IS-12-G6-S2	IS-12-G6-03	IS-12-H6-S2	IS-12-H6-03
95B062671	95B062661	95B062751	95B062741
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
> 1,6 mA (2wires ver.)			
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
500 Hz/200 Hz (4 wires NO-NC)			
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal	Against polarity reversal	Against polarity reversal
inductive loads	inductive loads	inductive loads	inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm² 4 x 0,25 mm²		3 x 0,14 mm² 4 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
	110 g		110 g
	5		

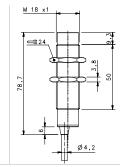


4 wires	5 (NO	+NC)		
C Marganetter		Contacts	numbers .	
Available	1	Contacts 2	numbers 3	4



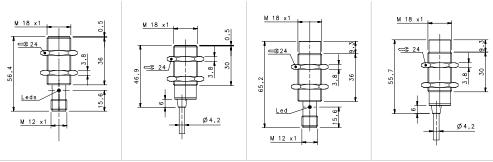




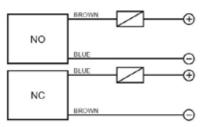


				STANDARD				
				FLU		NON	LUSH	
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITC	HING DISTAN	ICE		5 mm	5 mm	8 mm	8 mm	
10.201/1	PNP/NPN	(		IS-18-A0-S2	IS-18-A0-03	IS-18-C0-S2	IS-18-C0-03	
10-30 Vdc	NO-NC	4 wires	order No.	95B064260	95B064230	95B064280	95B064240	
10.201/4	PNP	2		IS-18-A1-S2	IS-18-A1-03	IS-18-C1-S2	IS-18-C1-03	
10-30 Vdc	NO	3 wires	order No.	95B061351	95B061341	95B061751	95B061741	
10.201/4	PNP	2		IS-18-A2-S2	IS-18-A2-03	IS-18-C2-S2	IS-18-C2-03	
10-30 Vdc	NC	3 wires	order No.	95B061371	95B061361	95B061771	95B061761	
10, 20 Vda	NPN	2		IS-18-A3-S2	IS-18-A3-03	IS-18-C3-S2	IS-18-C3-03	
10-30 Vdc	NO	3 wires	order No.	95B061311	95B061301	95B061711	95B061701	
10-30 Vdc	NPN	3 wires		IS-18-A4-S2	IS-18-A4-03	IS-18-C4-S2	IS-18-C4-03	
10-30 Vac	NC		order No.	95B061331	95B061321	95B061731	95B061721	
10-30 Vdc	PNP	4 wires						
10-30 Vuc	NO-NC	4 wires	order No.					
10-30 Vdc	NPN	4 wires						
10-30 Vuc	NO-NC	4 wires	order No.					
10-30 Vdc	NO-NC	2 wires		IS-18-A9-S2	S-18-A9-03	IS-18-C9-S2	IS-18-C9-03	
10-30 Vuc	NU-INC	2 WILES	order No.	95B063941	95B064300	95B064340	95B064310	
20-250 Vac/Vdc	NO	2 wires						
20-250 Vac/ Vuc	NU	Z WILES	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-230 Vac/ Vuc	NC	Z WIIES	order No.					
20-250 Vac	NO	2/3 wires						
20-230 Vac	NO	2/3 101165	order No.					
10-30 Vdc	Analog 0-20	3 wires						
10 JU VUC	mA	5 11165	order No.					
NAMUR amplifier	NAMUR	2 wires						
	MANUT	2 111103	order No.					

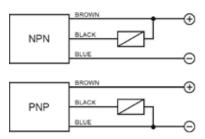
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Min. Output Current	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8V; < 6,5 V (2wires ver.)	< 1,8V; < 6,5 V (2wires ver.)	< 1,8V; < 6,5 V (2wires ver.)	< 1,8V; < 6,5 V (2wires ver.)
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		2 x 0,34 mm <sup>2</sup> 3 x 0,14 mm <sup>2</sup> 4 x 0,25 mm <sup>2</sup>		2 x 0,34 mm <sup>2</sup> 3 x 0,14 mm <sup>2</sup> 4 x 0,25 mm <sup>2</sup>
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight – Cable Output		145g		145g
Weight - Connector Output	95g		95g	



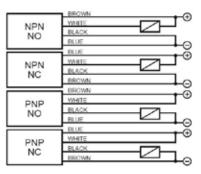
2 wires NO or NC



### 3 wires PNP or NPN



### 4 wires (PNP/NPN, NO/NC)



#### M12 connector - connections



## 2 wires NO or NC

A mail and a	Contacts numbers			
Available	1	2	3	4
NO	+			
NC			+	

#### 3 wires

Value and the		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		-	NO/NO

### 4 wires (PNP/NPN, NO/NC)

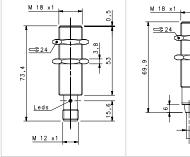
Output				
Output	- 10	2	-3	4
NPN NO	+	NO	-	-
NPN NC	-	NC	+	-
PNP NO	+	+	-	NO
PNP NC	-	+	+	NC

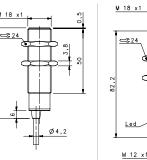
	SH	ORT	
FL	USH	NON	LUSH
M12 conn	cable	M12 conn	cable
5 mm	5 mm	8 mm	8 mm
IS-18-B1-S2	IS-18-B1-03	IS-18-D1-S2	IS-18-D1-03
95B062151	95B062141	95B062551	95B062541
IS-18-B2-S2	IS-18-B2-03	IS-18-D2-S2	IS-18-D2-03
95B062171	95B062161	95B062571	95B062561
IS-18-B3-S2	IS-18-B3-03	IS-18-D3-S2	IS-18-D3-03
95B062111	95B062101	95B062511	95B062501
IS-18-B4-S2	IS-18-B4-03	IS-18-D4-S2	IS-18-D4-03
95B062131	95B062121	95B062531	95B062521

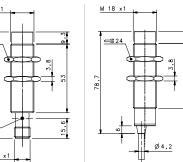
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm²		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Induct Sensors Catalog
	145g		145g
95g		95g	

### **COLOUATACO**





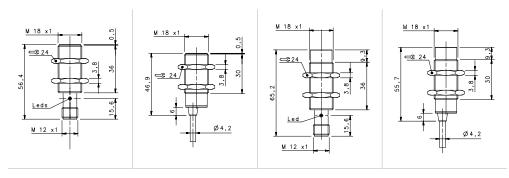




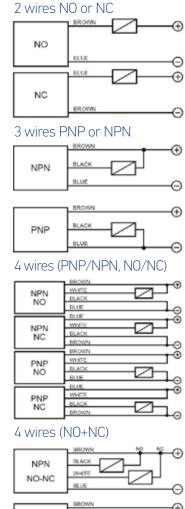
### STANDARD X2

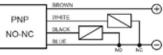
				FLU		NON FLUSH		
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCHING DISTANCE				8 mm		14 mm		
10-30 Vdc	PNP/NPN	4 wires		IS-18-E0-S2	IS-18-E0-03	IS-18-F0-S2	IS-18-F0-03	
10-30 Vac	NO-NC	4 wires	order No.	95B067310	95B067270	95B067330	95B067290	
10-30 Vdc	PNP	3 wires		IS-18-E1-S2	IS-18-E1-03	IS-18-F1-S2	IS-18-F1-03	
10-30 Vac	NO	3 Wires	order No.	95B067050	95B067810	95B067040	95B067880	
10-30 Vdc	PNP	2		IS-18-E2-S2	IS-18-E2-03	IS-18-F2-S2	IS-18-F2-03	
10-30 Vac	NC	3 wires	order No.	95B067780	95B067820	95B067850	95B067890	
10-30 Vdc	NPN	3 wires		IS-18-E3-S2	IS-18-E3-03	IS-18-F3-S2	IS-18-F3-03	
10-30 Vac	NO	3 wires	order No.	95B067790	95B067830	95B067860	95B067900	
10.201/4-	NPN	N 3 wires		IS-18-E4-S2	IS-18-E4-03	IS-18-F4-S2	IS-18-F4-03	
10-30 Vdc	NC		order No.	95B067800	95B067840	95B067870	95B067910	
10-30 Vdc	Vdc PNP NO-NC	4 wires						
10-30 Vac		4 wires	order No.					
10-30 Vdc	NPN	4 wires						
10-30 Vac	NO-NC	4 wires	order No.					
10-30 Vdc	NO-NC 2 wires		IS-18-E9-S2	IS-18-E9-03	IS-18-F9-S2	IS-18-F9-03		
10-30 Vac	NU-NC	z wires	order No.	95B067320	95B067280	95B067340	95B067300	
20-250 Vac/Vdc	NO	2 wires						
20-250 Vac/Vac	NU	z wires	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-250 Vac/Vdc	NC.	2 wires	order No.					
20-250 Vac	NO	2/3 wires						
20-250 Vac	NU	Z/3 WIRES	order No.					
10-30 Vdc	Analog 0-20	3 wires						
10-50 Vac	mA	5 wires	order No.					
NAMUD amplifer	NAMUD	2						
NAMUR amplifier	NAMUR	2 wires	order No.					

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Min. Output Current				
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	400 Hz	400 Hz	100 Hz	100 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
hort Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Femperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length				
Cable Section		2 x 0,34 mm <sup>2</sup> 3 x 0,14 mm <sup>2</sup> 4 x 0,25 mm <sup>2</sup>		2 x 0,34 mm <sup>2</sup> 3 x 0,14 mm <sup>2</sup> 4 x 0,25 mm <sup>2</sup>
lousing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
lctive face	LCP	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Veight – Cable Output			145g	145g
Weight - Connector Output	95q	95g		



	SHO	RT X2	
FLU		NON I	LUSH
M12 conn	cable	M12 conn	cable
8 mm	8 mm	14 mm	14 mm
IS-18-G1-S2	IS-18-G1-03	IS-18-H1-S2	IS-18-H1-03
95B063531	95B063521	95B063611	95B063601
IS-18-G2-S2	IS-18-G2-03	IS-18-H2-S2	IS-18-H2-03
95B063551	95B063541	95B063631	95B063621
IS-18-G3-S2	IS-18-G3-03	IS-18-H3-S2	IS-18-H3-03
95B063491	95B063061	95B063571	95B063561
IS-18-G4-S2	IS-18-G4-03	IS-18-H4-S2	IS-18-H4-03
95B063511	95B063501	95B063591	95B063581
IS-18-G5-S2	IS-18-G5-03	IS-18-H5-S2	IS-18-H5-03
95B062731	95B062721	95B062811	95B064220
IS-18-G6-S2	IS-18-G6-03	IS-18-H6-S2	IS-18-H6-03
95B062711	95B064200	95B062791	95B064210
10,001/1 ( 15/100/)	10.001/1 (15/100/)		
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
> 1,6 mA (2wires ver.)			
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-N
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +60 °C)	(-25 +70 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm² 4 x 0,25 mm²		$3 \times 0,14 \text{ mm}^2$ $4 \times 0,25 \text{ mm}^2$
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP		LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
	145g		145g
95g		95g	





## M12 connector connections

### 2 wires NO or NC

tion Banklan	Contacts numbers				
evaluatione -	1	2	3	- 4	
NO	+				
NC	-		+	1	

### 3 wires

c	ONTACTS	CONFIGU	RATION		
Available	Contacts numbers				
Available.	1	2	3	4	
(NO or NC)	+			NO/NC	

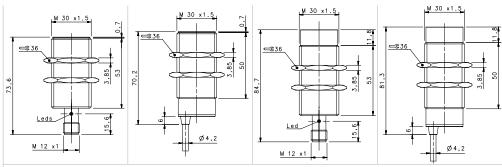
#### 4 wires (PNP/NPN, NO/NC)

0.0.0		Contacts	numbers	
Output	1	2		4
NPN NO	+	ND	-	-
NPN NC	-	NC	+	-
PNP NO	+	+	-	NO
PNP NC		+	+	NO

### 4 wires (NO+NC)

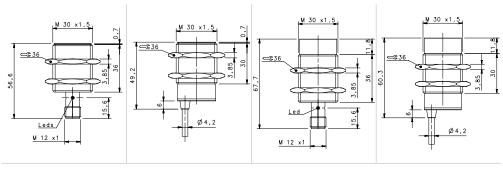
Australia		Contacta	numbera	
HURSDON	1.4	2	- 3	4
(NO + NC)	+	NC.	- 2	NO



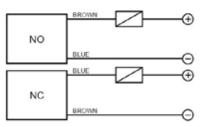


STANDARD

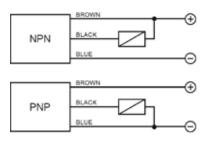
FLUSH         NON FL           M12 conn         cable         M12 conn         M12 conn <th>LUSH cable 15 mm IS-30-C0-03 95B064470 IS-30-C1-03 95B061821</th>	LUSH cable 15 mm IS-30-C0-03 95B064470 IS-30-C1-03 95B061821
NOMINAL SWITCHING DISTANCE         10 mm         10 mm         15 mm           10-30 Vdc         PNP/NPN N0-NC         4 wires         IS-30-A0-S2         IS-30-A0-03         IS-30-C0-S2           PNP         4 wires         0rder No.         95B064490         95B064460         95B064510           PNP         PNP         IS-30-L1-S2         IS-30-L1-S2         IS-30-L1-S2	<b>15 mm</b> IS-30-C0-03 95B064470 IS-30-C1-03
N0-NC         4 wires         IS-30-A0-S2         IS-30-A0-03         IS-30-C0-S2           N0-NC         0rder No.         95B064490         95B064460         95B064510           PNP         IS-30-A0-S2         IS-30-A0-S2         IS-30-A0-S2	IS-30-C0-03 95B064470 IS-30-C1-03
10-30 Vdc         NO-NC         4 wires         order No.         95B064490         95B064460         95B064510           PNP         IS-30-41-52         IS-30-41-03         IS-30-C1-52	95B064470 IS-30-C1-03
10-30 Vdc         NO-NC         4 wires         order No.         95B064490         95B064460         95B064510           PNP         IS-30-41-52         IS-30-41-03         IS-30-C1-52	IS-30-C1-03
PNP PNP IS-30-A1-S2 IS-30-A1-03 IS-30-C1-S2	
	95B061821
10-30 Vdc NO 3 wires order No. 95B061431 95B061421 95B061831	
10 20 V/da PNP 2. view IS-30-A2-S2 IS-30-A2-03 IS-30-C2-S2	IS-30-C2-03
10-30 Vdc NC 3 wires order No. 95B061451 95B061441 95B061851	95B061841
10-30 Vdc NPN 3 wires IS-30-A3-S2 IS-30-A3-03 IS-30-C3-S2	IS-30-C3-03
NO 3 wites order No. 95B061391 95B061381 95B061791	95B061781
10-30 Vdc NPN 3 wires IS-30-A4-S2 IS-30-A4-03 IS-30-C4-S2	IS-30-C4-03
NC Swites order No. 95B061411 95B061401 95B061811	95B061801
10-30 Vdc PNP 4 wires	
NO-NC 4 wires order No	
10-30 Vdc NPN 4 wires	
NO-NC 4 wires order No	
10-30 Vdc NO-NC 2 wires IS-30-A9-S2 IS-30-A9-03 IS-30-C9-S2	IS-30-C9-03
order No. 958064570 958064530 958064590	95B064550
20-250 Vac/Vdc NO 2 wires	
view order No	
20-250 Vac/Vdc NC 2 wires	
order No	
20-250 Vac NO 2/3 wires	
order No	
10-30 Vdc Analog 0-20 3 wires	
mA order No	
NAMUR amplifier NAMUR 2 wires	
order No	
Nominal Voltage         10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple         < 10%         < 10%	< 10%
Hysteresis         < 10%         < 10%         < 10%	< 10%
Max. Output Current 200mA; 100 mA (2wires) 200mA; 100 mA (2wires) 200mA; 100 mA (2wires)	200mA; 100 mA (2wires)
Min. Output Current         > 1,6 mA (2wires)         > 1,6 mA (2wires)         > 1,6 mA (2wires)	> 1,6 mA (2wires)
Residual Current         < 1,6 mA	< 1,6 mA
Voltage Drop         < 1,8V; < 6,5 V (2wires)         < 1,8V; < 6,5 V (2wires)         < 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)
Operation Led Yellow Yellow Yellow	Yellow
Switching Frequency 300 Hz/250 Hz (2 wires NO-NC) 300 Hz/250 Hz (2 wires NO-NC) 300 Hz/250 Hz (2 wires NO-NC)	300 Hz/250 Hz (2 wires NO-NC)
Start Up Delay         < 50 ms         < 50 ms         < 50 ms	< 50 ms
Repeatability         < 3%         < 3%	< 3%
Short Circuit Protection         Present (self-resetting)         Present (self-resetting)         Present (self-resetting)	Present (self-resetting)
Electric Protection         Against polarity reversal inductive loads         Against polarity reversal inductive loads         Against polarity reversal inductive loads         Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit         (-25 +70 °C)         (-25 +70 °C)         (-25 +70 °C)	(-25 +70 °C)
Protection Degree         IP67         IP67         IP67	IP67
<i>Cable Length</i> 2 m	2 m
Cable Section         2 x 0,34 mm <sup>2</sup> 3 x 0,14 mm <sup>2</sup> 4 x 0,25 mm <sup>2</sup>	2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material Nickel-plated brass Nickel-plated brass Nickel-plated brass	Nickel-plated brass
Active face LCP LCP LCP	LCP
Tightening torque         * see page 5 of the Inductive Sensors Catalog         * see page 5 of the Inductive Sensors Catalog         * see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output 210 g	210 g
Weight - Connector Output         170 g          170 g	



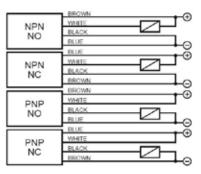
2 wires NO or NC



3 wires PNP or NPN



### 4 wires (PNP/NPN, NO/NC)



### M12 connector - connections



## 2 wires NO or NC

a second	Contacts numbers				
Available	1	2	3	4	
NO	+				
NC	<u> </u>		+		

#### 3 wires

Contraction of the		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		-	NO/NO

### 4 wires (PNP/NPN, NO/NC)

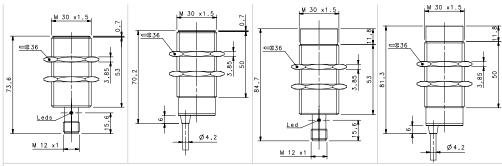
Output		Contacts	numbers	
Output	-1	2	-3	4
NPN NO	+	NO	-	-
NPN NC	-	NC	+	-
PNP NO	+	+	-	NO
PNP NC	-	+	+	NC

	SH	ORT		
FLU		NON FLUSH		
M12 conn	cable	M12 conn	cable	
10 mm	10 mm	15 mm	15 mm	
IS-30-B1-S2	IS-30-B1-03	IS-30-D1-S2	IS-30-D1-03	
95B062231	95B062221	95B062631	95B062621	
IS-30-B2-S2	IS-30-B2-03	IS-30-D2-S2	IS-30-D2-03	
95B062251	95B062241	95B062651	95B062641	
IS-30-B3-S2	IS-30-B3-03	IS-30-D3-S2	IS-30-D3-03	
95B062191	95B062181	95B062591	95B062581	
IS-30-B4-S2	IS-30-B4-03	IS-30-D4-S2	IS-30-D4-03	
95B062211	95B062201	95B062611	95B062601	
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	

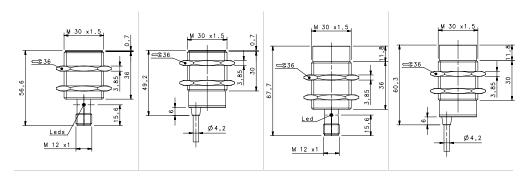
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Yellow	Yellow	Yellow	Yellow
300 Hz	300 Hz	300 Hz	300 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm <sup>2</sup>		3 x 0,14 mm <sup>2</sup>
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inducti Sensors Catalog
	210 g		210 g
170 g		170 g	

**COLOCITATION** 

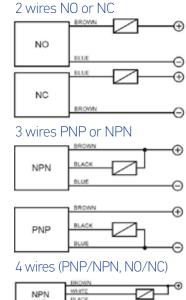


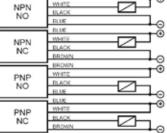


					STAND	ARD X2	
				FLI		NON-I	FLUSH
				M12 conn	cable	M12 conn	cable
NOMINAL SWITC	HING DISTAN	ICE		15mm	15mm	20 mm	20 mm
10.001/1	PNP/NPN	1		IS-30-E0-S2	IS-30-E0-03	IS-30-F0-S2	IS-30-F0-03
10-30 Vdc	NO-NC	4 wires	order No.	95B067390	95B067350	95B067410	95B067370
10.001/4	PNP	2		IS-30-E1-S2	IS-30-E1-03	IS-30-F1-S2	IS-30-F1-03
10-30 Vdc	NO	3 wires	order No.	95B067060	95B067950	95B067990	95B068030
10.201/4-	PNP	2		IS-30-E2-S2	IS-30-E2-03	IS-30-F2-S2	IS-30-F2-03
10-30 Vdc	NC	3 wires	order No.	95B067920	95B067960	95B068000	95B068040
10-30 Vdc	NPN	3 wires		IS-30-E3-S2	IS-30-E3-03	IS-30-F3-S2	IS-30-F3-03
10-30 Vuc	NO	5 WILES	order No.	95B067930	95B067970	95B068010	95B068050
10-30 Vdc	NPN	3 wires		IS-30-E4-S2	IS-30-E4-03	IS-30-F4-S2	IS-30-F4-03
10-30 Vac	NC	3 WIres	order No.	95B067940	95B067980	95B068020	95B068060
10.201/4	PNP	1					
10-30 Vdc	NO-NC	4 wires	order No.				
10.201/4-	NPN	1					
10-30 Vdc	NO-NC	4 wires	order No.				
10.201/4		0		IS-30-E9-S2	IS-30-E9-03	IS-30-F9-S2	IS-30-F9-03
10-30 Vdc	NO-NC	2 wires	order No.	95B067400	95B067360	95B067420	95B067380
00.05034 044	110	. ·					
20-250 Vac/Vdc	NO	2 wires	order No.				
00.05034 844		. ·					
20-250 Vac/Vdc	NC	2 wires	order No.				
20.250.1/	NO	0/0					
20-250 Vac	NO	2/3 wires	order No.				
	Analog 0-20	2					
	mA	3 wires	order No.				
	NAMUR	2					
NAMUR amplifier	NAMOR	2 wires	order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Current				200 mA	200 mA	200 mA	200 mA
Min. Output Current					200111A		
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop				< 6,5 V (I=100mA)			
Operation Led				Yellow	Yellow	Yellow	Yellow
Switching Frequence	v			200 Hz/100 Hz (2 wires NO-NC)			
Start Up Delay	,			< 75 ms	<75 ms	< 75 ms	< 75 ms
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads			
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length							
Cable Section					2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm <sup>2</sup> 3 x 0,14 mm <sup>2</sup> 4 x 0,25 mm <sup>2</sup>
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP	LCP
Tightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight – Cable Outpu	ut						
Weight - Connector				170 g	170 g	170 g	170 g
	1			- 5		- 5	

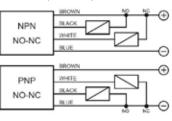


FLU		NON F	LUSH
M12 conn	cable	M12 conn	cable
15mm	15mm	20 mm	20 mm
IS-30-G1-S2	IS-30-G1-03	IS-30-H1-S2	IS-30-H1-03
95B063691	95B063681	95B063771	95B063761
IS-30-G2-S2	IS-30-G2-03	IS-30-H2-S2	IS-30-H2-03
95B063711	95B063701	95B063791	95B063781
IS-30-G3-S2	IS-30-G3-03	IS-30-H3-S2	IS-30-H3-03
95B063651	95B063641	95B063731	95B063721
IS-30-G4-S2	IS-30-G4-03	IS-30-H4-S2	IS-30-H4-03
95B063671	95B063661	95B063751	95B063741
IS-30-G5-S2	IS-30-G5-03	IS-30-H5-S2	IS-30-H5-03
95B063831	95B063821	95B064450	95B064420
IS-30-G6-S2	IS-30-G6-03	IS-30-H6-S2	IS-30-H6-03
95B064430	95B064400	95B064440	95B064410
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (l=100mA)
Yellow	Yellow	Yellow	Yellow
200 Hz	200 Hz	200 Hz	200 Hz
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm² 4 x 0,25 mm²		3 x 0,14 mm² 4 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inducti Sensors Catalog
	210 g		210 g





4 wires (NO+NC)



## M12 connector connections

### 2 wires NO or NC

and the second	Contacts numbers			
AV868018	1	2	3	4
NO	+		8	
NC	-		+	

### 3 wires

0	ONTACTS	S CONFIGU	RATION	
Australia		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+	1000	+	NO/NC

#### 4 wires (PNP/NPN, NO/NC)

Output	Contacts numbers				Contacta		
Output	1	2		4			
NPN NO	+	ND	1	-			
NPN NC	-	NC	+	-			
PNP NO	+	+	-	NO			
PNP NC	-	+	+	NO			

#### 4 wires (NO+NC)

Available	Contacta numbera			
AVENUE	1	2	- 3	4
(NO + NC)	+	NC.	- 3	NO

Stainless Steel housing M4, M5 POM active face - M6,5, M8, M12, M18, M30 LCP active face Standard length Short length Normal and double range operating distance Operating distance 0.8 ... 20 mm M4, M5, M6,5, M8, M12, M18, M30 Cable, M8 or M12 connector 3 wires PNP, NPN, NO, NC IP69K protection

**REDUCTION FACTOR** 

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

M12/18/30 models are Diversey and ECOLAB tested



\*Excluded M4 and M5 models





Each Stainless Steel model is IP69K tested M12/18/30 models are IP69K certified

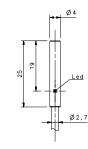
# STAINLESS STEEL





## **STAINLESS STEEL M4**

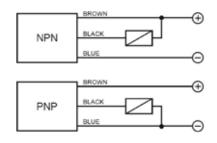




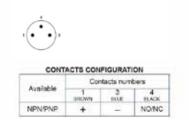
				STANDARD
				FLUSH
				cable
NOMINAL SWITC	HING DISTAN	ICE		0,8 mm
10-30 Vdc	PNP/NPN	4 wires		
	NO-NC		order No.	
10-30 Vdc	PNP	3 wires		IS-04-A1-03
10 00 140	NO	0 11100	order No.	95B061011
10-30 Vdc	PNP	3 wires		
10-30 vuc	NC	5 WIIES	order No.	
10.001/1	NPN NO	3 wires		IS-04-A3-03
10-30 Vdc			order No.	95B061001
40.0014	NPN NC	3 wires		
10-30 Vdc			order No.	
	PNP NO-NC	4 wires		
10-30 Vdc			order No.	
	NPN NO-NC	4 wires		
10-30 Vdc			order No.	
	NO-NC	2 wires		
10-30 Vdc			order No.	
	NO	2 wires		
20-250 Vac/Vdc			order No.	
		2 wires		
20-250 Vac/Vdc	NC		order No.	
		2/3 wires	0.001.001	
20-250 Vac	NO		order No.	
	Applag 0-20		STACT NO.	
10-30 Vdc	Analog 0-20 mA	3 wires	order No.	
	IIIA		UILEI NU.	
NAMUR amplifier	NAMUR	2 wires	anden Ma	
			order No.	

Nominal Voltage	10-30 Vdc (-15/10%)
Residual Ripple	< 10%
Hysteresis	< 15%
Max. Output Current	100 mA
Min. Output Current	
Residual Current	< 0,01 mA
Voltage Drop	< 1,5 V
Operation Led	Yellow
Switching Frequency	2000 Hz
Start Up Delay	
Repeatability	< 1%
Short Circuit Protection	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)
Protection Degree	IP69K
Cable Length	2 m (PUR)
Cable Section	3x 0,15 mm <sup>2</sup>
Housing Material	Stainless-Steel
Active face	POM
Tightening torque	
Weight - Cable Output	50 g
Weight - Connector Output	

### 3 wires PNP or NPN

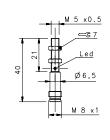


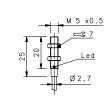
### M8 3 pole



## **STAINLESS STEEL M5**







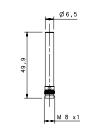


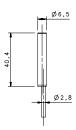
				STAN	DARD	STANDARD X2	
				FLUSH		FLUSH	
				M8 conn	cable	cable	
OMINAL SWITCH	ING DISTANCE	E		0,8 mm	0,8 mm	1,5 mm	
10-30 Vdc PNP/NPN NO-NC	PNP/NPN	Luviroc					
	NO-NC	4 wires	order No.				
10-30 Vdc	PNP	2		IS-05-A1-S1	IS-05-A1-03		
U-30 Vac	NO	3 wires	order No.	95B061051	95B061041		
0-30 Vdc	PNP	2					
10-30 Vac	NC	3 wires	order No.				
10-30 Vdc	NPN	2		IS-05-A3-S1	IS-05-A3-03	IS-05-E3-03	
10-30 Vac	NO	3 wires	order No.	95B061031	95B061021	95B065400	
10.00.1/1	NPN	3 wires			IS-05-A4-03		
10-30 Vdc NC	NC		order No.		95B065420		
0-30 Vdc	PNP	4 wires					
U-30 Vac	NO-NC		order No.				
0.001/1	NPN	C 4 wires					
0-30 Vdc	NO-NC		order No.				
0.001/1		2 wires					
10-30 Vdc	NO-NC		order No.				
0.0501/0/.	NO						
20-250 Vac/Vdc	NO	2 wires	order No.				
20.2E0.Vee/Vde	NC	2					
20-250 Vac/Vdc	NC	2 wires	order No.				
0.050.1/	NO	0/0					
20-250 Vac NO	INU	2/3 wires	order No.				
0.201/4-	Analog 0-20	2					
	mA	3 wires	order No.				
NAMUR amplifier	NAMUR	2 wires	order No.				
						10.001/1.(15/102/)	
Iominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 15%	< 15%	< 15%
Max. Output Current	100 mA	100 mA	100 mA
Min. Output Current			
Residual Current	< 0,01 mA	< 0,01 mA	< 0,01 mA
Voltage Drop	< 1,5V	< 1,5V	< 1,5V
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	2000 Hz	2000 Hz	2000 Hz
Start Up Delay			
Repeatability	< 1%	< 1%	
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K	IP69K
Cable Length		2 m (PUR)	2 m (PUR)
Cable Section		3x 0,15 mm <sup>2</sup>	3x 0,15 mm <sup>2</sup>
Housing Material	Stainless-Steel	Stainless-Steel	Stainless-Steel
Active face	POM	POM	POM
Tightening torque	1,5 Nm	1,5 Nm	1,5 Nm
Weight - Cable Output		25g	25g
Weight - Connector Output	14g		

## **STAINLESS STEEL M6,5**







## SHORT STAINLESS STEEL

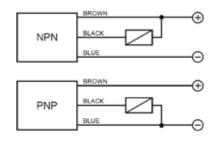
				FLUSH		
				M8 conn	cable	
NOMINAL SWITCHING DISTANCE				1,5 mm	1,5 mm	
PNP/NPN						
10-30 Vdc NO-NC		4 wires	order No.			
PNP			IS-65-M1-S1	IS-65-M1-03		
10-30 Vdc	NO	3 wires	order No.	958066080	95B064760	
	PNP			IS-65-M2-S1	IS-65-M2-03	
10-30 Vdc	NC	3 wires	order No.	95B066120	958064800	
	NPN			IS-65-M3-S1	IS-65-M3-03	
10-30 Vdc	NO	3 wires	order No.	95B066000	95B064680	
	NPN			IS-65-M4-S1	IS-65-M4-03	
10-30 Vdc	NC	3 wires	order No.	95B066040	95B064720	
	PNP		order No.			
10-30 Vdc	NO-NC	4 wires	order No.			
			order No.			
10-30 Vdc	NPN NO-NC	4 wires	ordor No			
	110-110		order No.			
10-30 Vdc	NO-NC	2 wires	andar: NI -			
			order No.			
20-250 Vac/Vdc	NO	2 wires				
			order No.			
20-250 Vac/Vdc	NC	2 wires				
			order No.			
20-250 Vac	NO	2/3 wires				
200.000		2011100	order No.			
10-30 Vdc	Analog 0-20	<sup>20</sup> 3 wires				
	mA		order No.			
NAMUR amplifier	NAMUR	2 wires				
	NAMOR	2 WIIes	order No.			
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 10%	< 10%	
Max. Output Curre	nt			200 mA	200 mA	
Min. Output Curre	nt					
Residual Current				< 10 mA	< 10 mA	
Voltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Operation Led				Yellow	Yellow	
, Switching Freque	ncv			1000 Hz	1000 Hz	
Start Up Delay				< 50 ms	< 50 ms	
Repeatability				< 3%	< 3%	
Short Circuit Prot	ection			Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal	Against polarity reversal	
			inductive loads	inductive loads		
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP69K	IP69K	
Cable Length						
Cable Section					3x 0,14 mm <sup>2</sup>	
Housing Material				Stainless-Steel	Stainless-Steel	
Active face				LCP	LCP	
Tightening torque						
Weight - Cable Output					80 g	
Weight - Connector Output				40 g		



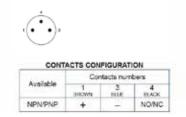
## SHORT STAINLESS STEEL

NON FLUSH						
M8 conn	cable					
2 mm	2 mm					
IS-65-N1-S1	IS-65-N1-03					
95B066240	95B064920					
IS-65-N2-S1	IS-65-N2-03					
95B066280	95B064960					
IS-65-N3-S1	IS-65-N3-03					
95B066160	95B064840					
IS-65-N4-S1	IS-65-N4-03					
95B066200	95B064880					
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)					
< 10%	< 10%					
< 10%	< 10%					
200 mA	200 mA					
< 10 mA	< 10 mA					
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)					
Yellow	Yellow					
1000 Hz	1000 Hz					
< 50 ms	< 50 ms					
< 3%	< 3%					
Present (self-resetting)	Present (self-resetting)					
Against polarity reversal inductive loads	Against polarity reversal inductive loads					
(-25 +70 °C)	(−25 +70 °C)					
IP69K	IP69K					
	3x 0,14 mm <sup>2</sup>					
Stainless-Steel	Stainless-Steel					
LCP	LCP					
	80 g					
40 g						
	1					

## 3 wires PNP or NPN

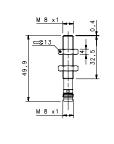


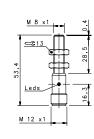
## M8 3 pole

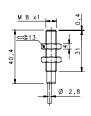


## **STAINLESS STEEL M8**



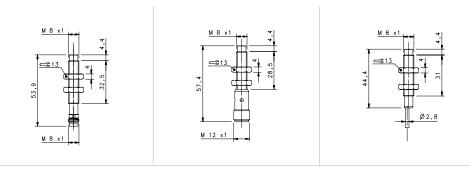






				SHORT STAINLESS STEEL				
				FLUSH				
				M8 conn	M12 conn	cable		
NOMINAL SWITCHING DISTANCE		1,5 mm	1,5 mm	1,5 mm				
10.20.Vda	10-30 Vdc PNP/NPN	4 wires						
10-30 Vuc	NO-NC		order No.					
10-30 Vdc	PNP	3 wires		IS-08-M1-S1	IS-08-M1-S2	IS-08-M1-03		
10-30 Vuc	NO	5 WILES	order No.	95B066870	95B066600	95B066380		
10-30 Vdc	PNP	3 wires		IS-08-M2-S1	IS-08-M2-S2	IS-08-M2-03		
10-30 Vac	NC	3 wires	order No.	95B066900	95B066630	95B066600		
10-30 Vdc	NPN	2		IS-08-M3-S1	IS-08-M3-S2	IS-08-M3-03		
10-30 Vac	NO	3 wires	order No.	95B066820	95B066540	95B066340		
10-30 Vdc	NPN	3 wires		IS-08-M4-S1	IS-08-M4-S2	IS-08-M4-03		
10-30 Vac	NC		order No.	95B066840	95B066570	95B066360		
10-30 Vdc	PNP	, .						
10-30 Vac	NO-NC	4 wires	order No.					
10-30 Vdc	NPN	4 wires						
10-30 Vac	NO-NC	4 WILES	order No.					
10-30 Vdc	NO-NC	2 wires						
10-30 vuc	INU-INC	Z WILES	order No.					
20-250 Vac/Vdc	NO	0 2 wires						
20-200 Vac/ Vuc	NU		order No.					
20-250 Vac/Vdc	NC	2 wires						
20-230 Vac/ Vuc	NC	2 WITES	order No.					
20-250 Vac	NO	2/3 wires						
20-2JU VdC	NU		order No.					
10-30 Vdc	Analog 0-20	3 wires						
10-30 Yuc	mA		order No.					
NAMUR amplifior	NAMUR	2 wires						
NAMUR amplifier	NAMOR		order No.					

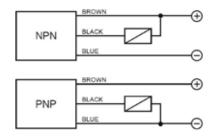
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K	IP69K
Cable Length			
Cable Section			3x 0,14 mm <sup>2</sup>
Housing Material	Stainless-Steel	Stainless-Steel	Stainless-Steel
Active face	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output			80 g
Weight - Connector Output	35g	55g	



3	HORT STAINLESS STE				
NON FLUSH					
M8 conn	M12 conn	cable			
2 mm	2 mm	2 mm			
IS-08-N1-S1	IS-08-N1-S2	IS-08-N1-03			
95B066980	95B066710	95B066490			
IS-08-N2-S1	IS-08-N2-S2	IS-08-N2-03			
95B067010	95B066730	95B066510			
IS-08-N3-S1	IS-08-N3-S2	IS-08-N3-03			
95B066930	95B066660	95B066440			
IS-08-N4-S1	IS-08-N4-S2	IS-08-N4-03			
95B066950	95B066680	95B066470			
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)			
< 10%	< 10%	< 10%			
< 10%	< 10%	< 10%			

10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (l=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K	IP69K
		3x 0,14 mm <sup>2</sup>
Stainless-Steel	Stainless-Steel	Stainless-Steel
LCP	LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
		80 g
35g	55g	

3 wires PNP or NPN

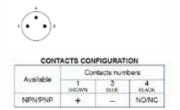


#### M12 3 pole



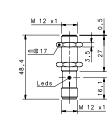
Available		Contects	numbers	
AVAILADIA.	1	2	3	4
(NO or NC)	+		-24	NOINC

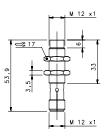
#### M8 3 pole



## **STAINLESS STEEL M12**

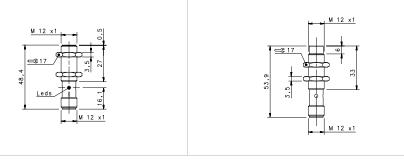






				SHORT STAINLESS STEEL			
				FLUSH	NON FLUSH		
				M12 conn	M12 conn		
NOMINAL SWITCI	HING DISTAN	ICE		2 mm	4 mm		
10-30 Vdc	PNP/NPN	4 wires					
10-30 Vac	NO-NC	4 WILES	order No.				
10-30 Vdc	PNP	3 wires		IS-12-M1-S2	IS-12-N1-S2		
10-30 Vac	NO	5 WILES	order No.	95B060240	95B060280		
10-30 Vdc	PNP	2		IS-12-M2-S2	IS-12-N2-S2		
10-30 Vac	NC	3 wires	order No.	95B060250	95B060290		
10-30 Vdc	NPN	2 wiroc		IS-12-M3-S2	IS-12-N3-S2		
10-30 Vac	NO	3 wires	order No.	95B060260	95B060300		
10-30 Vdc	NPN	2 wiroc		IS-12-M4-S2	IS-12-N4-S2		
10-30 Vac	NC	3 wires	order No.	95B060270	95B060310		
10-30 Vdc	PNP	4 wires					
10-30 Vac	NO-NC	4 wires	order No.				
10-30 Vdc	NPN	( uning a					
10-30 Vac	NO-NC	4 wires	order No.				
10-30 Vdc		2					
10-30 Vac	NO-NC	2 wires	order No.				
20.250.14.444	NO	0					
20-250 Vac/Vdc	NO	2 wires	order No.				
20-250 Vac/Vdc	NC	2 wires					
20-250 Vac/Vac	INC	2 wires	order No.				
20-250 Vac	NO	2/3 wires					
20-250 Vac	NU	Z/3 WIRES	order No.				
10-30 Vdc	Analog 0-20	3 wires					
10-30 Vac	mA	5 WIres	order No.				
NAMUR amplifier	NAMUR	2 wiroc					
NAMOR ampuner	NAMUR	2 wires	order No.				

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100mA)	< 1,8 V (l=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output		
Weight - Connector Output	60 g	60 g



	LESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
4 mm	8 mm
IS-12-01-S2	IS-12-P1-S2
95B060000	95B060040
IS-12-02-S2	IS-12-P2-S2
95B060010	95B060050
IS-12-03-S2	IS-12-P3-S2
95B060020	95B060060
IS-12-04-S2	IS-12-P4-S2
95B060030	95B060070
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
500 Hz	500 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal
inductive loads	inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K
Stainless-Steel	Stainless-Steel
LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog

#### M12 3 pole

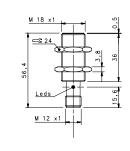


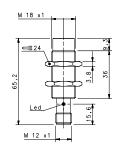
C	ONTACTS	CONFIGU	RATION	
and the second s		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		223	NO/NO

## **STAINLESS STEEL M30**



Weight - Connector Output

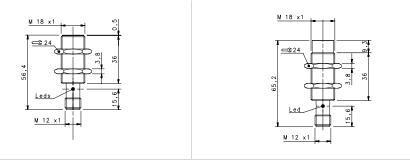




				SHORT STAI	NLESS STEEL
				FLUSH	NON FLUSH
				M12 conn	M12 conn
IOMINAL SWITC	HING DISTAN	ICE		5 mm	8 mm
10-30 Vdc	PNP/NPN	4 wires			
	NO-NC		order No.		
10-30 Vdc	PNP NO	3 wires	order No.	IS-18-M1-S2 95B060320	IS-18-N1-S2 95B060360
	PNP		order No.	IS-18-M2-S2	IS-18-N2-S2
0-30 Vdc	NC	3 wires	order No.	958060330	95B060370
	NPN			IS-18-M3-S2	IS-18-N3-S2
0-30 Vdc	NO	3 wires	order No.	95B060340	95B060380
0.001/1-	NPN	2		IS-18-M4-S2	IS-18-N4-S2
0-30 Vdc	NC	3 wires	order No.	95B060350	95B060390
0-30 Vdc	PNP	4 wires			
0-30 Vac	NO-NC	4 wires	order No.		
0-30 Vdc	NPN	4 wires			
0 50 440	NO-NC	4 WIC5	order No.		
0-30 Vdc	NO-NC	2 wires			
			order No.		
0-250 Vac/Vdc	NO	2 wires			
			order No.		
0-250 Vac/Vdc	NC	2 wires			
			order No.		
0-250 Vac	NO	2/3 wires	and a Na		
			order No.		
0-30 Vdc	Analog 0-20 mA	3 wires	order No.		
			order NO.		
AMUR amplifier	NAMUR	2 wires	order No.		
			order rto.		
Iominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
esidual Ripple				< 10%	< 10%
ysteresis				< 10%	< 10%
ax. Output Curre	nt			200 mA	200 mA
lin. Output Curre	nt				
esidual Current				< 10 mA	< 10 mA
oltage Drop				< 1,8 V (l=100mA)	< 1,8 V (l=100mA)
peration Led				Yellow	Yellow
witching Freque	ncy			1000 Hz	1000 Hz
tart Up Delay				< 50 ms	< 50 ms
epeatability				< 3%	< 3%
hort Circuit Prot	ection			Present (self-resetting)	Present (self-resetting)
lectric Protection	n			Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limi	ł			(-25 +70 °C)	(-25 +70 °C)
rotection Degree				IP69K	IP69K
able Length					
able Section					
lousing Material				Stainless-Steel	Stainless-Steel
ctive face				LCP	LCP
ightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Veight - Cable Ou	tput				
laight Congests				0E a	0Ec

95g

95g



	LESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
8 mm	14 mm
IS-18-01-S2	IS-18-P1-S2
95B060080	95B060120
IS-18-02-S2	IS-18-P2-S2
95B060090	95B060130
IS-18-03-S2	IS-18-P3-S2
95B060100	95B060140
IS-18-04-S2	IS-18-P4-S2
95B060110	95B060150
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
200 Hz	200 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal
inductive loads	inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K
Stainless-Steel	Stainless-Steel
LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog

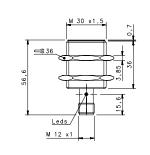
#### M12 3 pole

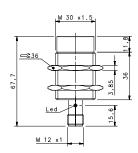


C1	ONTACTS	S CONFIGU	RATION	
Available		Contacts	numbers	
Available .	1	2	3	4
(NO or NC)	+			NO/NC

## **STAINLESS STEEL M30**

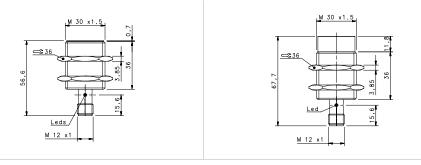






and the second se	-				
				SHORT STAI	NLESS STEEL
				FLUSH	NON FLUSH
				M12 conn	M12
OMINAL SWITC	HING DISTAN	ICE		10 mm	15 mm
0.001/1	dc PNP/NPN 4 wires				
10-30 Vdc			order No.		
0.201/4-	PNP	2		IS-30-M1-S2	IS-30-N1-S2
0-30 Vdc	NO	3 wires	order No.	95B060400	95B060440
0.201/1	PNP	0		IS-30-M2-S2	IS-30-N2-S2
0-30 Vdc	NC	3 wires	order No.	95B060410	95B060450
0-30 Vdc	NPN	2		IS-30-M3-S2	IS-30-N3-52
10-30 Vac	NO	3 wires	order No.	95B060420	95B060460
0.001/1	NPN	<u>.</u>		IS-30-M4-S2	IS-30-N4-S2
10-30 Vdc	NC	3 wires	order No.	95B060430	95B060470
0.001/1	PNP	, .			
0-30 Vdc	NO-NC	4 wires	order No.		
0.001/1	NPN	, .			
0-30 Vdc	NO-NC	4 wires	order No.		
0.001/1					
0-30 Vdc	NO-NC	2 wires	order No.		
20-250 Vac/Vdc	NO	2 wires	order No.		
0.050.14		. ·			
20-250 Vac/Vdc	NC	2 wires	order No.		
0.050.1/		0/0 .			
20-250 Vac	NO	2/3 wires	order No.		
10.20.Vd-	Analog 0-20	3 wires			
10-30 Vdc	mA	3 WIRES	order No.		
	NAMUD	2			
NAMUR amplifier NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%
Hysteresis				< 10%	< 10%
Max. Output Current				200 mA	200 mA
Min. Output Current					

neonault nippto	10/0	10/0	
Hysteresis	< 10%	< 10%	
Max. Output Current	200 mA	200 mA	
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	
Voltage Drop	< 1,8 V (l=100mA)	< 1,8 V (I=100mA)	
Operation Led	Yellow	Yellow	
Switching Frequency	300 Hz	300 Hz	
Start Up Delay	< 50 ms	< 50 ms	
Repeatability	< 3%	< 3%	
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Femperature Limit	(-25 +70 °C)	(-25 +70 °C)	
Protection Degree	IP69K	IP69K	
Cable Length			
Cable Section			
lousing Material	Stainless-Steel	Stainless-Steel	
Active face	LCP	LCP	
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	
Weight – Cable Output			
Weight - Connector Output	170 g	170 g	



	LESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
15 mm	20 mm
IS-30-01-S2	IS-30-P1-S2
95B060160	95B060200
IS-30-02-S2	IS-30-P2-S2
95B060170	95B060210
IS-30-03-S2	IS-30-P3-S2
95B060180	95B060220
IS-30-04-S2	IS-30-P4-S2
95B060190	95B060230
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
<10%	< 10%
<10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
100 Hz	100 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	ІР69К
 Chairlean Staal	 Ctainland Staal
Stainless-Steel	Stainless-Steel
LCP * see page 5 of the Inductive Sensors Catalog	LCP
see page 5 of the inductive Sensors Latalog	* see page 5 of the Inductive Sensors Catalog

#### M12 3 pole



C	ONTACTS	CONFIGU	RATION	
Available		Contacta	numbers	
Available	1	2	3	4
(NO or NC)	+		24	NOINC

Stainless Steel housing Stainless Steel AISI 303 active face Standard length 2 ... 8 mm M12, M18 M12 connector 3 wires PNP, NO IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,45	0,85	0,4	0,5

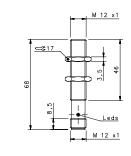
# METAL FACE

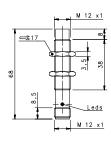




## **METAL FACE M12**



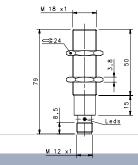


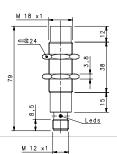


				META	L FACE
				FLUSH	NON FLUSH
				M12 conn	M12 conn
DMINAL SWITC	HING DISTAN	ICE		2 mm	4 mm
	PNP/NPN				
0-30 Vdc	NO-NC	4 wires	order No.		
	PNP			IS-12-I1-S2	IS-12-L1-S2
0-30 Vdc	NO	3 wires	order No.	95B065340	95B063871
0.001/1	PNP	2			
0-30 Vdc	NC	3 wires	order No.		
)-30 Vdc	NPN	3 wires			
-30 vuc	NO	5 WILES	order No.		
0-30 Vdc	NPN	3 wires			
5-50 Vuc	NC	5 WIIes	order No.		
0-30 Vdc	PNP	4 wires			
	NO-NC		order No.		
)-30 Vdc	NPN	4 wires			
	NO-NC		order No.		
0-30 Vdc	NO-NC	2 wires			
			order No.		
0-250 Vac/Vdc	NO	2 wires			
			order No.		
)-250 Vac/Vdc	NC	2 wires			
	NO 2/3 wires		order No.		
0-250 Vac		2/3 wires	andan Na		
			order No.		
D-30 Vdc	Analog 0-20 mA	0 3 wires	order No.		
			order No.		
AMUR amplifier	NAMUR	2 wires	order No.		
			order rvo.		
ominal Voltage				10-30 Vdc	10-30 Vdc
esidual Ripple				<10%	< 10%
ysteresis				<15%	< 15%
ax. Output Curren	t			200 mA	200 mA
in. Output Curren					
esidual Current				< 0,01 mA	< 0,01 mA
oltage Drop				< 1,5 V (I=100mA)	< 1,5 V (I=100mA)
peration Led				Present	Present
witching Frequen	су			2000 Hz	1000 Hz
tart Up Delay					
epeatability				< 1%	< 1%
hort Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)
Electric Protection			Against polarity reversal inductive loads	Against polarity reversal inductive loads	
emperature Limit				(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67
Cable Length					
able Section					
ousing Material				Stainless-Steel	Stainless-Steel
				Stainless Steel AISI 303	Stainless Steel AISI 303
Active face					
ightening torque				10Nm	10Nm

## **METAL FACE M18**







and the second s				M 12 x1	M 12 x1
				M	
				FLUSH	NON FLUSH
				M12 conn	M12 conn
OMINAL SWITC	HING DISTAN	ICE		5 mm	8 mm
	PNP/NPN				
10-30 Vdc	NO-NC	4 wires	order No.		
	PNP			IS-18-I1-S2	IS-18-L1-S2
0-30 Vdc	NO	3 wires	order No.	95B065350	95B063881
	PNP				
0-30 Vdc	NC	3 wires	order No.		
	NPN				
0-30 Vdc	NO	3 wires	order No.		
0.001/1	NPN	. ·			
0-30 Vdc	NC	3 wires	order No.		
	PNP				
0-30 Vdc	NO-NC	4 wires	order No.		
	NPN				
0-30 Vdc	NO-NC	4 wires	order No.		
0.001/1					
0-30 Vdc	NO-NC	2 wires	order No.		
0.0501/ 0/1					
0-250 Vac/Vdc	NO	2 wires	order No.		
0-250 Vac/Vdc	NC	2 wires	order No.		
0.050.1/		0 2/3 wires			
0-250 Vac	NO		order No.		
0.001/1-	Analog 0-20	2			
0-30 Vdc	mA	3 wires	order No.		
		2			
IAMUR amplifier	NAMUR	2 wires	order No.		
lominal Voltage				10-30 Vdc	10-30 Vdc
esidual Ripple				< 10%	< 10%
ysteresis				< 15%	< 15%
lax. Output Current				200 mA	200 mA
lin. Output Current	ł			> 1,6 mA	> 1,6 mA
esidual Current				< 0,01 mA	< 0,01 mA
oltage Drop				< 1,5 V	< 1,5 V
peration Led				Present	Present
witching Frequence	:y			1000 Hz	500 Hz
tart Up Delay					
epeatability				< 1%	< 1%
hort Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67
Cable Length					
able Section					
ousing Material				Stainless-Steel	Stainless-Steel
ctive face				Stainless Steel AISI 303	Stainless Steel AISI 303
ightening torque				10Nm	10Nm
Weight - Cable Outp	ut				
Weight - Connector	Outnut			95g	95g

Stainless Steel housing PTFE active face Standard length Operating distance 2 ... 8 mm M12, M18 M12 connector 3 wires PNP, NO IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,45	0,85	0,4	0,5

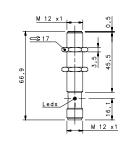
## WELD FIELD IMMUNE

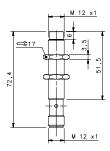




## WELD FIELD IMMUNE M12







#### FIELD IMMUNE STAINLESS STEEL M12 conn M12 conn NOMINAL SWITCHING DISTANCE 2 mm 4 mm PNP/NPN ---10-30 Vdc 4 wires NO-NC order No. ---PNP IS-F12-S1-S2 IS-F12-T1-S2 10-30 Vdc 3 wires NO 95B065360 95B065370 order No. PNP ---10-30 Vdc 3 wires NC order No ------NPN ----10-30 Vdc 3 wires NO order No. NPN 10-30 Vdc 3 wires NC order No \_\_\_\_ ---PNP ----10-30 Vdc 4 wires NO-NC order No. -------NPN 10-30 Vdc 4 wires NO-NC order No. ---10-30 Vdc NO-NC 2 wires order No. ----20-250 Vac/Vdc NO 2 wires order No. ----------20-250 Vac/Vdc NC 2 wires order No. ---20-250 Vac NO 2/3 wires order No. ---Analog 0-20 ------10-30 Vdc 3 wires mΑ order No. ------------NAMUR amplifier NAMUR 2 wires order No. ----Nominal Voltage 10-30 Vdc 10-30 Vdc **Residual Ripple** < 10% < 10% Hysteresis < 15% < 15% Max. Output Current 200 mA 200 mA Min. Output Current < 10mA < 10mA **Residual Current** < 0,1 mA < 0,1 mA Voltage Drop < 1,5V < 1.5V **Operation Led** Present Present Switching Frequency 2000 Hz 1000 Hz Start Up Delay < 0,1 ms < 0,1 ms Repeatability < 1% < 1% Short Circuit Protection Present (self-resetting) Present (self-resetting) Against polarity reversal Against polarity reversal Electric Protection inductive loads inductive loads **Temperature Limit** (-25 ... +70 °C) (-25 ... +70 °C) **Protection Degree** IP67 IP67 Cable Length -------Cable Section ----Housing Material Stainless-Steel Stainless-Steel

PTFE

10 Nm

---

25g

Active face

Tightening torque

50

Weight - Cable Output

Weight - Connector Output

PTFE

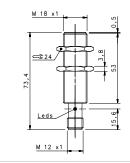
10 Nm

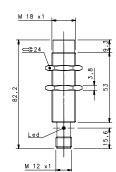
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23g

## WELD FIELD IMMUNE M18







				FIELD IMMUNE STAINLESS STEEL		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCHING DISTANCE				5 mm	8 mm	
10-30 Vdc	PNP/NPN	4 wires				
10-30 vuc	NO-NC	4 11165	order No.			
10-30 Vdc	PNP	3 wires		IS-F18-S1-S2	IS-F18-T1-S2	
10-30 Vuc	NO	5 WILES	order No.	95B065380	95B065390	
10-30 Vdc	PNP	3 wires				
10-30 Vuc	NC	5 WILES	order No.			
10-30 Vdc	NPN	3 wires				
10-30 Vuc	NO	3 wires	order No.			
10-30 Vdc	NPN	3 wires				
10-30 Vuc	NC		order No.			
10-30 Vdc	PNP	4 wires				
10-30 vuc	NO-NC	4 WIIES	order No.			
10-30 Vdc	NPN	4 wires				
10-30 vuc	NO-NC	4 WIIES	order No.			
10-30 Vdc	NO-NC	2 wires				
10-30 vuc	INO-INC	2 WIIES	order No.			
20-250 Vac/Vdc	NO	2 wires				
20-230 Vac/ Vac	110	2 WIIES	order No.			
20-250 Vac/Vdc	NC	2 wires				
20-230 vac/ vac	NC	2 WIIES	order No.			
20-250 Vac	NO	2/3 wires				
ZU-ZJU VdC	NU	2/J WILES	order No.			
10-30 Vdc	Analog 0-20	3 wires				
10-30 VUC	mA	J WILES	order No.			
NAMUR amplifier	NAMUR	2 wires				
NAMOR ampuller	INAMUOR	z wires	order No.			

Nominal Voltage	10-30 Vdc	10-30 Vdc
Residual Ripple	< 10%	< 10%
Hysteresis	< 15%	< 15%
Max. Output Current	200 mA	200 mA
Min. Output Current	< 10mA	< 10mA
Residual Current	< 0,1 mA	< 0,1 mA
Voltage Drop	< 1,5V	< 1,5V
Operation Led	Present	Present
Switching Frequency	1000 Hz	500 Hz
Start Up Delay	< 0,2 ms	< 0,5 ms
Repeatability	< 1%	< 1%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	PTFE	PTFE
Tightening torque	30 Nm	30 Nm
Weight - Cable Output		
Weight - Connector Output	94g	91g

Nickel-plated Brass housing PA 16 active face Standard length Operating distance 2 ... 10 mm M12, M18, M30 cable or M12 connector 20+250 Vac (50,60 Hz) 2 or 3 wires NO IP67 protection

**REDUCTION FACTOR** 

		ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
A	Average red. Fact.	0,30,45	0,61	0,250,45	0,350,5



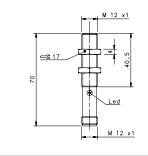
# INDUCTIVE AC

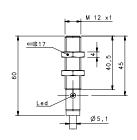




## **INDUCTIVE AC M12**





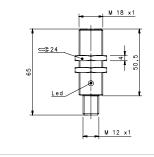


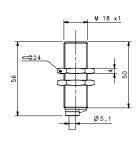
				STAND	ARD VAC	
				FLUSH		
				M12 conn	cable	
OMINAL SWITC	HING DISTAN	ICE		2 mm	2 mm	
10.001/1	PNP/NPN					
10-30 Vdc	NO-NC	4 wires	order No.			
10-30 Vdc	PNP	3 wires				
10-30 Vuc	NO	5 WILES	order No.			
0-30 Vdc	PNP	3 wires				
10-30 vuc	NC	5 WILES	order No.			
0-30 Vdc	NPN 2		3 wires			
0-30 vuc	NO	5 WILES	order No.			
0-30 Vdc	NPN	3 wires				
0-30 vuc	NC <sup>3 wire</sup>	5 WILES	order No.			
0-30 Vdc	PNP	4 wires				
0.00.440	NO-NC 4 WI	NO-NC	4 10105	order No.		
0-30 Vdc	NPN	4 wires				
0 50 440	NO-NC		order No.			
0-30 Vdc	NO-NC	2 wires				
0 50 440		2 101103	order No.			
0-250 Vac/Vdc	Vac/Vdc NO	2 wires				
0-230 Vac/ Vac	110	2 101105	order No.			
0-250 Vac/Vdc	NC	2 wires				
.0-230 Vac/ Vac	NC	2 WIIES	order No.			
20-250 Vac	NO	2/3 wires		IS-12-A15-S2	IS-12-A15-03	
10-230 Vac	NO	2/3 WILES	order No.	95B060690	95B060680	
0-30 Vdc	Analog 0-20	3 wires				
0-30 vuc	mA	5 WILES	order No.			
IAMUR amplifier	NAMUR	2 wires				
	MAMOR	2 WILES	order No.			
Nominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)	
Residual Ripple				< 10%	< 10%	

Nominal Voltage	20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	500 mA, inrush:1,5A	500 mA, inrush:1,5A
Min. Output Current	20 mA	20 mA
Residual Current	< 0,7 mA	< 0,7 mA
Voltage Drop	< 4 V (I=100mA)	< 4 V (l=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	25 Hz	25 Hz
Start Up Delay	< 300 ms	< 300 ms
Repeatability	5%	5%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		2 m
Cable Section		2 x 0,25 mm <sup>2</sup>
Housing Material	Nickel-plated brass	Nickel-plated brass
Active face	PA 16	PA 16
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output		145g
Weight - Connector Output	95g	

## **INDUCTIVE AC M18**







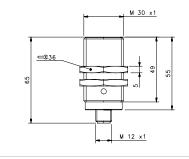
### STANDARD VAC

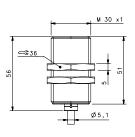
			FLUSH		
			M12 conn	cable	
NOMINAL SWITCHING DISTANCE			5 mm	5 mm	
PNP/NPN	(				
NO-NC	4 wires	order No.			
PNP	3 wires				
NO	5 WIIes	order No.			
PNP	3 wires				
NC	5 11105	order No.			
NPN	3 wires				
	0 111 00	order No.			
	3 wires				
		order No.			
	4 wires				
		order No.			
	4 wires				
NU-NC		order No.			
NO-NC	2 wires	NL-			
		order No.			
NO	2 wires	anden Na			
		order no.			
NC	2 wires	ordor No			
		order No.		 IS-18-A15-03	
NO	2/3 wires	order No		95B060770	
Applog 0-20		STUCI NO.			
mA	3 wires	order No			
NAMUR	2 wires	order No.			
	PNP/NPN NO-NC PNP NC NPN NO NPN NO-NC NPN NO-NC NO-NC NO-NC NO-NC NO-NC NO-NC	PNP/NPN NO-NC4 wiresPNP NO3 wiresPNP NC3 wiresNPN NO3 wiresNPN NC3 wiresNPN NO-NC4 wiresNPN NO-NC4 wiresNO-NC2 wiresNO-NC2 wiresNO2 wiresNO2 wiresNO2 wiresNO2 wiresNO2 wiresNO2 wiresNO2 wires	PNP/NPN N0-NC     4 wires     order No.       PNP N0     3 wires     order No.       PNP NC     3 wires     order No.       NPN N0     3 wires     order No.       NPN N0     3 wires     order No.       NPN N0     3 wires     order No.       NPN NC     4 wires     order No.       NPN N0-NC     4 wires     order No.       N0-NC     2 wires     order No.       N0     2 wires     order No.       N0     2 wires     order No.       N0     2/3 wires     order No.	M12 conn           M12 conn           M12 conn           ING DISTANCE         S mm           PNP/NPN NO-NC         4 wires order No.	

Nominal Voltage	20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)	
Residual Ripple	< 10%	< 10%	
Hysteresis	< 10%	< 10%	
Max. Output Current	500 mA, inrush:1,5A	500 mA, inrush:1,5A	
Min. Output Current	20 mA	20 mA	
Residual Current	< 0,7 mA	< 0,7 mA	
Voltage Drop	< 4 V (I=100mA)	< 4 V (I=100mA)	
Operation Led	Yellow	Yellow	
Switching Frequency	25 Hz	25 Hz	
Start Up Delay	< 300 ms	< 300 ms	
Repeatability	5%	5%	
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	
Protection Degree	IP67	IP67	
Cable Length		2 m	
Cable Section		2 x 0,25 mm <sup>2</sup>	
Housing Material	Nickel-plated brass	Nickel-plated brass	
Active face	PA 16	PA 16	
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	
Weight - Cable Output		145g	
Weight - Connector Output	95g		

## **INDUCTIVE AC M30**





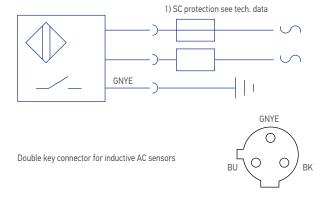


#### STANDARD VAC

				FLUSH		
				M12 conn	cable	
NOMINAL SWITC	HING DISTAN	ICE		10 mm	10 mm	
10-30 Vdc	PNP/NPN	4 wires				
10-30 vuc	NO-NC	4 WIIES	order No.			
10-30 Vdc	PNP	3 wires				
10-30 vuc	NO	5 WIIES	order No.			
10-30 Vdc	PNP	3 wires				
10-50 vuc	NC	5 WIIES	order No.			
10-30 Vdc	NPN 2.wi	3 wires				
10-50 vuc	NO	5 WIIES	order No.			
10-30 Vdc	NPN	3 wires				
10-50 vuc	NC		order No.			
10-30 Vdc	PNP	4 wires				
10-50 vuc	NO-NC		order No.			
10-30 Vdc	NPN	4 wires				
10-50 vuc	NO-NC		order No.			
10-30 Vdc	NO-NC	2 wires				
10-50 vuc	110-110	2 111105	order No.			
20-250 Vac/Vdc	NO	2 wires				
20-230 Vac/ Vuc	NO	2 WIIES	order No.			
20-250 Vac/Vdc	NC	2 wires				
20 200 440/ 440	110	2 11103	order No.			
20-250 Vac	NO	2/3 wires		IS-30-A15-S2	IS-30-A15-03	
20-230 Vac	NO	2/3 101103	order No.	95B060820	95B060810	
10-30 Vdc A	Analog 0-20	3 wires				
10 00 VUC	mA	5 WIICS	order No.			
NAMUR amplifier	NAMUR	2 wires				
MAMON ampuller	NAMON	2 WIIES	order No.			

Nominal Voltage	20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)
Residual Ripple	< 10%	< 10%
lysteresis	< 10%	< 10%
Max. Output Current	500 mA, inrush:1,5A	500 mA, inrush:1,5A
Min. Output Current	20 mA	20 mA
Residual Current	< 0,7 mA	< 0,7 mA
Voltage Drop	< 4 V (I=100mA)	< 4 V (l=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	25 Hz	25 Hz
Start Up Delay	< 300 ms	< 300 ms
Repeatability	5%	5%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Femperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		2 m
Cable Section		2 x 0,25 mm <sup>2</sup>
Housing Material	Nickel-plated brass	Nickel-plated brass
Active face	PA 16	PA 16
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight – Cable Output		145g
Weight - Connector Output	95g	

#### Inductive AC



Stainless Steel housing LCP active face Short length Operating distance 0.8 ... 15 mm M5, M8, M12, M30 Cable, M8 or M12 connector 2 wires IP67 protection

**REDUCTION FACTOR** 

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7



M12/18/30 FLUSH models are ATEX certified II 3G EX nA II T6 II 3D EX tD A22 IP67 T85°C





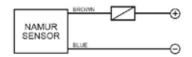




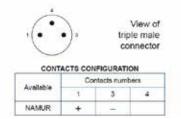


-						
				NAMUR		
				FLUSH		
				cable		
IOMINAL SWITC	HING DISTAN	ICE		0,8 mm		
10-30 Vdc	PNP/NPN	4 wires				
	NO-NC		order No.			
10-30 Vdc	PNP NO	3 wires	order No.			
10.001/1	PNP	a .				
10-30 Vdc	NC	3 wires	order No.			
10-30 Vdc	NPN	3 wires				
10 30 440	NO	5 WIIC5	order No.			
10-30 Vdc	NPN NC	3 wires	order No.			
10.001/1	PNP					
10-30 Vdc	NO-NC	4 wires	order No.			
10-30 Vdc	NPN	4 wires				
10-30 Yuc	NO-NC	4 WILES	order No.			
10-30 Vdc	NO-NC	2 wires				
10 00 140		2 11100	order No.			
20-250 Vac/Vdc	NO	2 wires				
			order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
			order No.			
20-250 Vac	NO	2/3 wires	order No.			
40.001/1	Analog 0-20 mA	3 wires				
10-30 Vdc			order No.			
NAMUD amplifiar	NAMUR	2 wires		IS-05-A20-03		
NAMUR amplifier	NAMOR	2 WIES	order No.	95B065410		
Nominal Voltage				6+ 12 V DC		
Residual Ripple						
Hysteresis				< 10%		
Max. Output Current				< 3 mA (metal absent)		
Min. Output Current				< 1 mA (metal present)		
Residual Current						
Voltage Drop						
Operation Led				 2000 Hz		
Switching Frequence	y					
Start Up Delay Repeatability				< 10 ms		
Repeatability Short Circuit Protec	tion			Present (self-resetting)		
Electric Protection				Against polarity reversal		
				inductive loads		
Temperature Limit				(-25 +70 °C)		
Protection Degree				IP67		
Cable Length				2 m (PVC)		
Cable Section				2x 0,15 mm <sup>2</sup>		
Housing Material				Stainless-Steel		
Active face				LCP		
Tightening torque				1,5Nm		
Weight - Cable Outp	ατ			25g		

#### 2 wires NAMUR

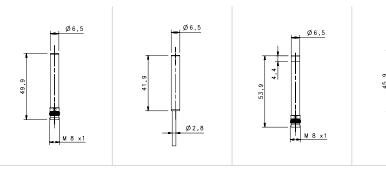


#### M8 2 wires NAMUR



## NAMUR M6,5



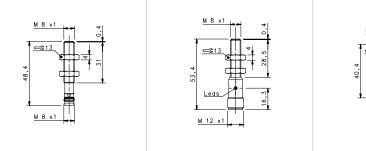


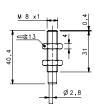
Ø6,5

Ø2,8

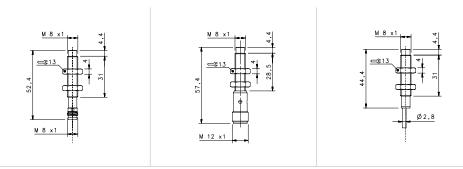
				NAMUR					
				FLU			LUSH		
				M8 conn	cable	M8 conn	cable		
IOMINAL SWITC	HING DISTAN	ICE		1 mm	1 mm	2 mm	2 mm		
10.001/1	PNP/NPN	, .							
10-30 Vdc	NO-NC	4 wires	order No.						
0.001/1	PNP								
10-30 Vdc	NO	3 wires	order No.						
0-30 Vdc	PNP	3 wires							
10-30 Vuc	NC	5 WILES	order No.						
10-30 Vdc	NPN	3 wires							
0-50 vuc	NO	5 WIIES	order No.						
0-30 Vdc	NPN	3 wires							
10-30 vuc	NC	5 WIIES	order No.						
10-30 Vdc	PNP	4 wires							
0-50 vuc	NO-NC	4 11105	order No.						
10-30 Vdc	NPN	4 wires							
10-50 vuc	NO-NC	4 11105	order No.						
0-30 Vdc	NO-NC	2 wires							
10 30 440	No Ne	2 WIICS	order No.						
20-250 Vac/Vdc	NO	2 wires							
200 100, 100		2 11103	order No.						
20-250 Vac/Vdc	NC	2 wires							
200 100, 100			order No.						
20-250 Vac	NO	2/3 wires							
		2011.00	order No.						
0-30 Vdc	Analog 0-20	<sup>20</sup> 3 wires							
	mA		order No.						
NAMUR amplifier	NAMUR	2 wires		IS-65-A20-S1	IS-65-A20-03	IS-65-C20-S1	IS-65-C20-03		
		2 11100	order No.	95B066310	95B066290	95B066320	95B066300		
Nominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC		
Residual Ripple				< 10%	< 10%	< 10%	< 10%		
lysteresis				< 10%	< 10%	< 10%	< 10%		
Max. Output Current	•			< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)		
Min. Output Current				< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)		
Residual Current									
/oltage Drop									
peration Led									
Switching Frequence	:y			2000 Hz	2000 Hz	2000 Hz	2000 Hz		
Start Up Delay									
Repeatability				< 3%	< 3%	< 3%	< 3%		
Short Circuit Protec	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)		
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads		
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)		
Protection Degree				IP67	IP67	IP67	IP67		
able Length					2 m		2 m		
Cable Section					2x 0,25 mm <sup>2</sup>		2 x 0,25 mm <sup>2</sup>		
lousing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass		
Active face				LCP	LCP	LCP	LCP		
Veight – Cable Outp	ut				80 g		80 g		
Veight - Connector (				40 g		40 g			





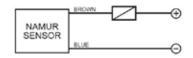


					NAMUR			
				FLUSH				
				M8 conn	M12 conn	cable		
NOMINAL SWITC		ICE		1 mm	1 mm	1 mm		
10-30 Vdc	PNP/NPN	4 wires						
	NO-NC		order No.					
10-30 Vdc	PNP	3 wires						
	NO		order No.					
10-30 Vdc	PNP NC	3 wires	N.					
			order No.					
10-30 Vdc	NPN NO	3 wires	andan Ma					
			order No.					
10-30 Vdc	NPN NC	3 wires	andan Ma					
			order No.					
10-30 Vdc	PNP NO-NC	4 wires	order No.					
			order NO.					
10-30 Vdc	NPN NO-NC	4 wires	order No.					
			order No.					
10-30 Vdc	NO-NC	2 wires	order No.					
			order No.					
20-250 Vac/Vdc	NO	2 wires	order No.					
			order No.					
20-250 Vac/Vdc	NC	2 wires	order No.					
		2/3 wires	order No.					
20-250 Vac	20-250 Vac NO		order No.					
	Analog 0-20	1						
10-30 Vdc	mA	3 wires	order No.					
				IS-08-A20-S1	IS-08-A20-S2	S-08-A20-03		
NAMUR amplifier	NAMUR	2 wires	order No.	95B066780	95B066760	95B066740		
Nominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC		
Residual Ripple				< 10%	< 10%	< 10%		
Hysteresis				< 10%	< 10%	< 10%		
, Max. Output Current				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)		
Min. Output Current				< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)		
Residual Current								
Voltage Drop								
Operation Led								
Switching Frequenc	;y			2000 Hz	2000 Hz	2000 Hz		
Start Up Delay								
Repeatability				< 3%	< 3%	< 3%		
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)		
Electric Protection		Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads				
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)		
Protection Degree				IP67	IP67	IP67		
Cable Length						2 m		
Cable Section						2x 0,25 mm <sup>2</sup>		
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass		
Active face				LCP	LCP	LCP		
Tightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catal		
Weight – Cable Outpu	ut			coopage of the inductive bensols catalog	cos page o or are inductive octions datatoy	80 g		
Weight - Connector (				35g	55g			

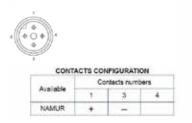


NON FLUSH							
M8 conn	M12 conn	cable					
2 mm	2 mm	2 mm					
IS-08-C20-S1	IS-08-C20-S2	IS-08-C20-03					
95B066790	95B066770	95B066750					
7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC					
< 10%	< 10%	< 10%					
< 10%	< 10%	< 10%					
< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)					
< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)					
 2000 Hz	 2000 Hz	2000 Hz					
2000 HZ		2000 HZ					
< 3%	< 3%	< 3%					
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)					
Against polarity reversal	Against polarity reversal	Against polarity reversal					
inductive loads	inductive loads	inductive loads					
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)					
IP67	IP67	IP67					
		2 m					
		2 x 0,25 mm <sup>2</sup>					
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass					
LCP	LCP	LCP					
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog					
		80 g					

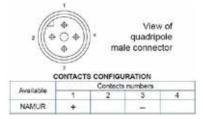
#### 2 wires NAMUR



#### M8 2 wires NAMUR

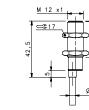


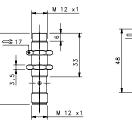
#### M12 2 wires NAMUR



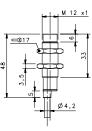


M 12 x1
Leds M 12 x1





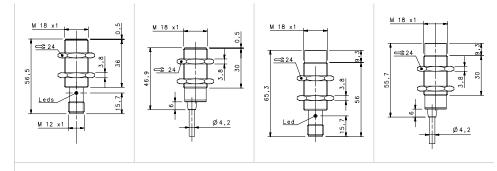
54



				NAMUR					
				FLU		NON F	LUSH		
				M12 conn	cable	M12 conn	cable		
NOMINAL SWITCH	ING DISTAN	ICE		2 mm	2 mm	4mm	4mm		
10-30 Vdc	PNP/NPN	4 wires							
10-50 vuc	NO-NC	4 11105	order No.						
10-30 Vdc	PNP	3 wires							
10-50 vuc	NO	5 WIIES	order No.						
10-30 Vdc	PNP	3 wires							
10-30 vuc	NC	5 WIIES	order No.						
10-30 Vdc	NPN	3 wires							
10-30 vuc	NO	5 WIIES	order No.						
10-30 Vdc	NPN	3 wires							
10-30 vuc	NC	5 WIIES	order No.						
10-30 Vdc	PNP	4 wires							
10-30 Vac	NO-NC	4 wires	order No.						
10-30 Vdc	NPN	(							
10-30 Vac	NO-NC	4 wires	order No.						
10.201/4		2 wires							
10-30 Vdc	NO-NC		order No.						
20.250.14.444	NO	0							
20-250 Vac/Vdc	NO	2 wires	order No.						
20.250.1/20/1/40	NC	NC	2						
20-250 Vac/Vdc	INC	2 wires	order No.						
20.250.1/	NO	0/0							
20-250 Vac	NO	2/3 wires	order No.						
10.001/1	Analog 0-20	o :							
10-30 Vdc	mA	3 wires	order No.						
		o :		IS-12-A20-S2	IS-12-A20-03	IS-12-C20-S2	IS-12-C20-03		
NAMUR amplifier	NAMUR	2 wires	order No.	95B064180	95B064160	95B064190	95B064170		
Nominal Voltage				7,7 + 9 V DC	7.7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC		
Residual Ripple				< 10%	< 10%	< 10%	< 10%		
Hysteresis				< 10%	< 10%	< 10%	< 10%		
				< 3 mA (metal absent)					
Max. Output Current Min. Output Current				< 1 mA (metal absent)					
Residual Current				< T mA (metal present)	< T mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)		
Voltage Drop									
Operation Led									
Switching Frequency	/			2000 Hz	2000 Hz	2000 Hz	2000 Hz		

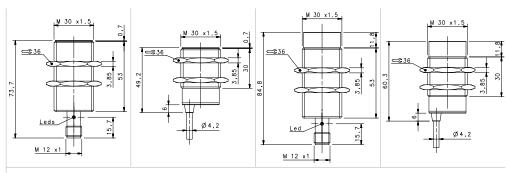
Start Up Delay				
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		2 x 0,25 mm^2		2 x 0,25 mm^2
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output		110 g		110 g
Weight - Connector Output	60 g		60 g	





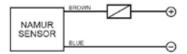
				NAMUR									
				FLU	JSH NAI		LUSH						
				M12 conn	cable	M12 conn	cable						
OMINAL SWITC	HING DISTAN	ICE		5mm	5mm	8mm	8mm						
0.001/1	PNP/NPN	, .											
0-30 Vdc	NO-NC	4 wires	order No.										
0.001/1-	PNP	2											
0-30 Vdc	NO	3 wires	order No.										
0-30 Vdc	PNP	3 wires											
0-30 Vac	NC	5 WILES	order No.										
0-30 Vdc	NPN	3 wires											
0-30 vuc	NO	5 WILES	order No.										
0-30 Vdc	NPN	3 wires											
0-50 vuc	NC	5 WIES	order No.										
0-30 Vdc	PNP	4 wires											
0 50 440	NO-NC	4 WIIC5	order No.										
0-30 Vdc	NPN	4 wires											
0 50 440	NO-NC	4 WIIC5	order No.										
0-30 Vdc	NO-NC	2 wires											
0 00 140		2 WIICS	order No.										
0-250 Vac/Vdc	NO	2 wires											
0 200 100, 100		2 111.00	order No.										
0-250 Vac/Vdc	NC	2 wires											
			order No.										
0-250 Vac	NO 2	2/3 wires											
			order No.										
D-30 Vdc	Analog 0-20	0-20 3 wires											
	MA	IIIA	ША	MA	mA	mA	ША		order No.				
IAMUR amplifier	NAMUR	2 wires		IS-18-A20-S2	IS-18-A20-03	IS-18-C20-S2	IS-18-C20-03						
			order No.	95B064380	95B064360	95B064390	95B064370						
ominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC						
esidual Ripple				< 10%	<10%	<10%	< 10%						
ysteresis				< 10%	< 10%	< 10%	< 10%						
ax. Output Current				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)						
lin. Output Current				< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)						
esidual Current	•												
oltage Drop													
peration Led													
witching Frequenc	:v			1000 Hz	1000 Hz	1000 Hz	1000 Hz						
tart Up Delay	/												
Repeatability				< 3%	< 3%	< 3%	< 3%						
hort Circuit Protec	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)						
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads						
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)						
Protection Degree				IP67	IP67	IP67	IP67						
able Length					2 m		2 m						
able Section					2 x 0,25 mm <sup>2</sup>		2 x 0,25 mm <sup>2</sup>						
				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass						
ousing Material				LCP	LCP	LCP	LCP						
ctive face				* see page 5 of the Inductive	* see page 5 of the Inductive	* see page 5 of the Inductive	* see page 5 of the Inductiv						
lousing Material Lctive face Tightening torque Veight - Cable Outpu				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog 145g	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductiv Sensors Catalog 145g						



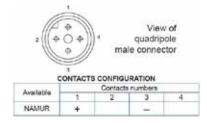


				NAMUR				
				FLU		NON FLUSH		
				M12 conn	cable	M12 conn	cable	
IOMINAL SWITC	HING DISTAN	ICE		10mm	10mm	15mm	15mm	
10.201/4-	PNP/NPN	1						
10-30 Vdc NO-NC	4 wires	order No.						
10.001/1	PNP	2						
10-30 Vdc	NO	3 wires	order No.					
10.20.1/4-	PNP	o .						
10-30 Vdc	NC	3 wires	order No.					
10-30 Vdc	NPN	3 wires						
10-30 Vuc	NO	5 WILES	order No.					
10-30 Vdc	NPN	3 wires						
10-30 Vuc	NC	5 WILES	order No.					
10-30 Vdc	PNP	4 wires						
10-30 Vuc	NO-NC	4 wires	order No.					
10-30 Vdc	NPN	4 wires						
10-30 VUC	NO-NC	4 wires	order No.					
10-30 Vdc	NO-NC	2 wires						
10-30 VUC	INU-INC	2 wires	order No.					
20-250 Vac/Vdc	NO	2 wires						
20-250 vac/vuc	NO	Z WIIES	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-230 Vac/ Vuc	INC.	Z WITES	order No.					
20-250 Vac	NO	2/3 wires						
20-230 Vac	NO	Z/3 WILES	order No.					
10-30 Vdc	Analog 0-20	3 wires						
10-30 Vuc	mA	5 WILES	order No.					
NAMUR amplifier	NAMUR	2 wires		IS-30-A20-S2	IS-30-A20-03	IS-30-C20-S2	IS-30-C20-03	
NAMOR ampliner	NAMOR	z wires	order No.	95B064630	95B064610	95B064640	95B064620	
Nominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
Hysteresis				< 10%	< 10%	< 10%	< 10%	
Max. Output Current				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	
Min. Output Current	t			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	
Residual Current								
Voltage Drop								
Operation Led								
Switching Frequency			500 Hz	500 Hz	500 Hz	500 Hz		
Start Up Delay								
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Electric Protection		Temperature Limit			(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
				(-25 +60 °C)	( 20 111 : 00 0)			
Temperature Limit				(-25 +60 °C) IP67	IP67	IP67	IP67	
Temperature Limit Protection Degree							IP67 2 m	
Temperature Limit Protection Degree Cable Length				IP67	IP67	IP67		
Temperature Limit Protection Degree Cable Length Cable Section				IP67	IP67 2 m	IP67 	2 m	
Temperature Limit Protection Degree Cable Length Cable Section Housing Material				IP67	IP67 2 m 2 x 0,25 mm <sup>2</sup>	IP67  	2 m 2 x 0,25 mm <sup>2</sup>	
				IP67  Nickel-plated brass	IP67 2 m 2 x 0,25 mm <sup>2</sup> Nickel-plated brass	IP67   Nickel-plated brass	2 m 2 x 0,25 mm <sup>2</sup> Nickel-plated brass	

#### 2 wires NAMUR



#### M12 2 wires NAMUR



PBT (resin) or Nickel-plated Brass housing Operating distance 1.5 ... 15 mm 40x40 mm or 8x8 mm dimension Cable, M8 connector or Terminal Block 2 or 3 wires PNP, PNP/NPN, NO, NC, NO/NC IP67

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fac	ct. 0,45	0,85	0,4	0,5



\*IS-88 models only

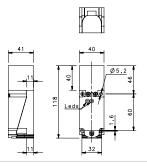
## SQUARE



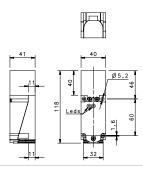


## **SQUARE 40X40**





	/						
				40X40			
				FLUSH	NON FLUSH		
				Terminal Block	Terminal Block		
NOMINAL SWITCHING DISTANCE				15 mm	30mm		
PNP/NPN /							
10-30 Vdc NO-NO	NO-NC	4 wires	order No.				
10.201/d-	PNP	2					
10-30 Vdc N0	NO	3 wires	order No.				
10-30 Vdc	PNP						
10-30 vuc	NC	3 wires	order No.				
0-30 Vdc	3 wires						
10 30 440	NO	5 WIIC5	order No.				
10-30 Vdc	NPN	3 wires					
	NC	J WILES	order No.				
10-30 Vdc	PNP	4 wires		IS-40-W5-S3	IS-40-Y5-S3		
	NO-NC		order No.	95B065240	95B065280		
10-30 Vdc	NPN	4 wires		IS-40-W6-S3	IS-40-Y6-S3		
	NO-NC		order No.	95B065230	95B065270		
10-30 Vdc	NO-NC	2 wires					
			order No.				
20-250 Vac/Vdc	NO	2 wires					
			order No.				
20-250 Vac/Vdc	NC	2 wires					
			order No.				
20-250 Vac	NO	2/3 wires					
			order No.				
10-30 Vdc	Analog 0-20 mA	3 wires					
	IIIA		order No.				
NAMUR amplifier	NAMUR	2 wires	ordor No				
			order No.				
Nominal Voltage				10-30 Vdc	10-30 Vdc		
Residual Ripple				< 10%	< 10%		
Hysteresis				< 15% (Sr)	< 15% (Sr)		
Max. Output Current				200mA	200mA		
Min. Output Current							
Residual Current				< 0,01 mA	< 0,01 mA		
Voltage Drop				< 1,5V	<1,5V		
Operation Led				YES	YES		
Switching Frequenc	y			100 Hz	100 Hz		
Start Up Delay	•						
Repeatability				< 1.0% (Sr)	< 1.0% (Sr)		
Short Circuit Protection				Present (self-resetting)	Present (self-resetting)		
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Temperature Limit				(-25+75C)	(-25 +75 °C)		
Protection Degree				IP67	IP67		
Cable Length							
Cable Section							
Housing Material				PBT ( RESIN)	PBT ( RESIN)		
Weight – Cable Outpu	ut						
				262g	262g		
Weight - Connector Output				202g	262g		

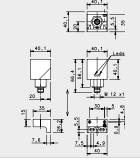


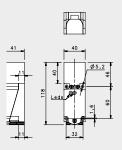
40X40 V	/AC/VDC		
FLUSH	NON FLUSH		
Terminal Block	Terminal Block		
15 mm	30mm		
	 IC (0 V7 C2		
IS-40-W7-S3 	IS-40-Y7-S3 95B065290		
IS-40-W8-S3	IS-40-Y8-S3		
95B065260	95B065300		
20-250 VAC/Vdc, 50-60 Hz	20-250 VAC/Vdc, 50-60 Hz		
< 10%	< 10%		
< 15% (Sr)	< 15% (Sr)		
200mA	200mA		
 < 2,5mA	 < 2,5mA		
<10Vac;<8Vdc	< 10Vac ; < 8Vdc		
YES	YES		
25 Hz AC; 40 Hz DC	25 Hz AC; 40 Hz DC		
< 1.0% (Sr)	< 1.0% (Sr)		
Present (self-resetting)	Present (self-resetting)		
Against polarity reversal inductive loads	Against polarity reversal inductive loads		
(-25 +70 °C)	(-25 +70 °C)		
IP67	IP67		
PBT ( RESIN)	PBT ( RESIN)		
262g	262g		



## **SQUARE 40X40**

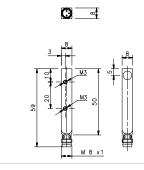


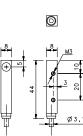




			SHORT	ANALOG OUTPUT		
				FLUSH	NON FLUSH	
				M12 conn.	Terminal Block	
NOMINAL SWITCHING DISTANCE				15mm	7-20mm	
10-30 Vdc	PNP/NPN	4 wires				
NU-NC		4 111103	order No.			
	PNP	3 wires				
NO			order No.			
10-30 Vdc PNF	PNP	3 wires	and an Na			
			order No.			
	NPN NO	3 wires	order No.			
			order No.			
0-30 Vdc NPN	NPN	3 wires	order No.			
	PNP		order NO.	 IS-40-X5-S2		
0-30 Vdc	NO-NC	4 wires	order No.	958065320		
	NPN		oraci NO.	IS-40-X6-S2		
0-30 Vdc	NPN NO-NC	4 wires	order No.	958065310		
			order NO.			
0-30 Vdc NO-NC	NO-NC	2 wires	order No.			
			order ivo.			
0-250 Vac/Vdc	NO	2 wires	order No.			
			order No.			
0-250 Vac/Vdc	NC	2 wires	order No.			
			order No.			
0-250 Vac	NO	2/3 wires	order No.			
	Analog 0-20		order ivo.		IS-40-C11-S3	
0-30 Vdc	mA	3 wires	order No.		95B065330	
			order Ho.			
IAMUR amplifier	NAMUR	2 wires	order No.			
Iominal Voltage				10-30 Vdc	18-30 Vdc	
esidual Ripple				< 10%	< 10%	
lysteresis				< 15% (Sr)	< 10% (Sr)	
fax. Output Current				200mA	0-20mA/200 Ω Max.	
lin. Output Current						
Residual Current				< 0,01mA		
oltage Drop				< 1,5V		
peration Led				YES		
Switching Frequenc	:y			100 Hz	100 Hz	
itart Up Delay	•					
Repeatability				< 1.0% (Sr)	0,02 mm	
Short Circuit Protection				Present (self-resetting)	Present (self-resetting)	
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
emperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	
able Length						
Cable Section						
				PBT (RESIN)	PBT (RESIN)	
lousing Material						







#### SHORT

				M8 conn	cable
IOMINAL SWITC	HING DISTAN	ICE		1,5mm	1,5mm
10-30 Vdc	PNP/NPN	(			
10-30 Vac	NO-NC	4 wires	order No.		
0.001/1	PNP	. ·		IS-88-Q1-S1	IS-88-Q1-03
0-30 Vdc	NO	3 wires	order No.	95B060840	95B060830
	PNP				
0-30 Vdc	NC	3 wires	order No.		
	NPN				
0-30 Vdc	NO	3 wires	order No.		
	NPN				
0-30 Vdc	NC	3 wires	order No.		
	PNP		order No.		
0-30 Vdc	NO-NC	4 wires	anden No.		
			order No.		
0-30 Vdc	NPN NO-NC	4 wires	and a M		
	INU-INC		order No.		
0-30 Vdc	NO-NC	2 wires			
			order No.		
20-250 Vac/Vdc	NO	2 wires			
.0 200 100, 100		2 11103	order No.		
0-250 Vac/Vdc	NC	2 wires			
0-230 Vac/ Vac	NC	2 WIIES	order No.		
0-250 Vac	NO	2/3 wires			
U-250 Vac	NU	Z/3 WIRES	order No.		
	Analog 0-20	0 3 wires			
0-30 Vdc	mA		order No.		
VAMUR amplifier	NAMUR	2 wires	order No.		
Iominal Voltage				10-30 Vdc	10-30 Vdc
lesidual Ripple				< 10%	< 10%
lysteresis				< 10% (Sr)	< 10% (Sr)
				200mA	200mA
Aax. Output Current				200ma	200mA
Min. Output Current	t				
Residual Current					
oltage Drop				< 1,2V	< 1,2V
peration Led				Yellow	Yellow
Switching Frequence	cy			500 Hz	500 Hz
itart Up Delay				75 ms	75 ms
Repeatability				< 3%	< 3%
Short Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)
ectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit				(-25 +70 °C)	(-25 +70 °C)
				IP67	IP67
Protection Degree					2 m
					3x0,14mm <sup>2</sup>
Cable Length					
Cable Length Cable Section					
Protection Degree Cable Length Cable Section Housing Material Neight - Cable Outp				 nickel-plated brass 	nickel-plated brass 80 g

Capacitive sensors are noncontact proximity devices suitable for detecting metals, nonmetals, solids, and liquids. The oscillating circuit is influenced by variations in capacity. When any material comes close to the active face, the capacity of the sensor varies and, if the threshold distance is passed, the sensor switches the state of its outputs. Like for the inductive sensors, the operating distance is calculated using a square piece of Fe37, with 1 mm thickness. The variation of the capacitance is due to the conductivity or non-conductivity of the different materials. Conductive materials change the capacitance of the sensor, while non-conductive materials change the dielectric constant of the reference capacitor; the sensor feel the variation of the generated electric field by its active sensing face.

Datalogic offers a basic range for the Capacitive sensors, M18 and M30 tubular housing, in Direct or Alternated Current, in nickel-plated brass or plastic housing, with timer and sensitivity adjustment trimmer, equipped with the industrial standard outputs, suitable for the most common applications of detection and in the filling level control of the materials.

Nickel plated brass M18, M30 Basic series (NO-NC) Capacitive A.C. series (plastic housing) Multi-voltage series (SPDT relay) Operating distance: 5...25 mm Cable or M8 connector 2,4,6 wires PNP or NPN, N.O. and N.C. outputs, SPDT relay Delay ON or delay OFF model IP67 protection

REDUCTION FACTOR
1xSn
1xSn
0.5xSn
0.5xSn
0.4xSn



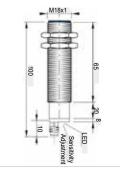
# CAPACITIVE BASIC, CAPACITIVE A.C., MULTIVOLTAGE

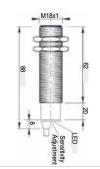


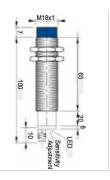


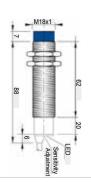
# **CAPACITIVE BASIC M18**









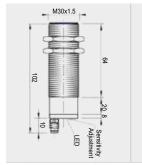


					STAN	DARD		
				FLU		NON F	FLUSH	
				M8 conn	cable	M8 conn	cable	
NOMINAL SWITC	HING DISTAN	ICE		15 mm 15 mm 110 mm 110 mm			110 mm	
10-30 Vdc	PNP/NPN	4 wires						
10-30 Vac	NO-NC	4 wires	order No.					
10-30 Vdc	PNP	3 wires						
10-30 vuc	NO	5 WIIES	order No.					
10-30 Vdc	PNP	3 wires						
10 30 440	NC	5 WIIC5	order No.					
10-30 Vdc	NPN		3 wires					
10 50 440	NO	5 WILES	order No.					
10-30 Vdc	NPN	3 wires						
10 00 140	NC	0 11100	order No.					
10-30 Vdc	PNP	4 wires		CS08K2	CS08	CS14K2	CS14	
10 30 440	NO-NC	4 11103	order No.	958901040	958901020	958901270	958901120	
10-30 Vdc	NPN	4 wires		CS07K2	CS07	CS13K2	CS13	
10 30 440	NO-NC		order No.	958901000	958901160	958901250	958901100	
10-30 Vdc	NO-NC	2 wires						
10-50 vuc	NO-NC	2 11105	order No.					
20-250 Vac/Vdc	NO	2 wires						
20-230 Vac/ Vac	110	2 111105	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-230 Vac/ Vac	NC	2 111105	order No.					
20-250 Vac	NO	2/3 wires						
20 230 Vac	110	2/5 441105	order No.					
10-30 Vdc	Analog 0-20	3 wires						
10 00 440	mA	5 11105	order No.					
NAMUR amplifier	NAMUR	2 wires						
	MANUT	2 11103	order No.					

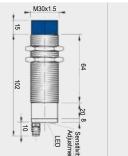
Nominal Voltage	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)
Residual Ripple	<10%	<10%	<10%	<10%
Hysteresis	depends on the sensing distance			
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (l=100 m A)	< 1,8 V (I=100 m A)	< 1,8 V (I=100 m A)	< 1,8 V (I=100 m A)
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz	10 Hz	10 Hz
Start Up Delay	< 100 ms	< 100 ms	< 100 ms	< 100 ms
Repeatability	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)
Electric Protections	Against polarity	Against polarity	Against polarity	Against polarity
Electric Protections	reversal inductive loads	reversal inductive loads	reversal inductive loads	reversal inductive loads
Temperature Limits	- 25 +70 C			
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		4x 0,25 mm^2		4x 0,25 mm^2
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output		160 g		160 g
Weight - Connector Output	120 g		120 g	

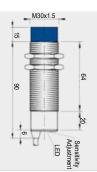
# **CAPACITIVE BASIC M30**









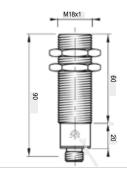


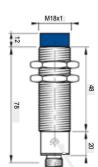
					STAN	IDARD	
				FLI		NON FLUSH	
				M8 conn	cable	M8 conn	cable
NOMINAL SWITC	MINAL SWITCHING DISTANCE			115 mm	115 mm	125 mm	125 mm
10-30 Vdc	PNP/NPN	(					
10-30 Vac	NO-NC	4 wires	order No.				
10-30 Vdc	PNP	3 wires					
10-30 Vac	NO	3 wires	order No.				
10-30 Vdc	PNP	3 wires					
10-30 vac	NC	5 WILES	order No.				
10-30 Vdc	NPN	2 wiroc					
10-30 vuc	NO	3 wires	order No.				
10-30 Vdc	NPN	3 wires					
10-50 vuc	NC	5 WIIES	order No.				
10-30 Vdc	PNP	4 wires		CS10K2	CS10	CS16K2	CS16
10-50 vuc	NO-NC	4 11105	order No.	958901080	958901060	958901330	958901140
10-30 Vdc	NPN	4 wires		CS09K2	CS09	CS15K2	CS15
10-50 vac	NO-NC		order No.	958901230	958901180	958901300	958901200
10-30 Vdc	NO-NC	2 wires					
10-50 vuc	110-110	2 WIICS	order No.				
20-250 Vac/Vdc	NO	2 wires					
20-230 Vac/ Vac	NO	2 WIICS	order No.				
20-250 Vac/Vdc	NC	2 wires					
20 230 440, 440	THE .	2 11105	order No.				
20-250 Vac	NO	2/3 wires					
20 200 400		2,0 11100	order No.				
10-30 Vdc	Analog 0-20	3 wires					
10 00 140	mA	0 111103	order No.				
NAMUR amplifier	NAMUR	2 wires					
NAMON ampuller	NAMUK	2 wires	order No.				

Nominal Voltage	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)
Residual Ripple	<10%	<10%	<10%	<10%
Hysteresis	depends on the sensing distance			
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (l=100 m A)	< 1,8 V (I=100 m A)	< 1,8 V (I=100 m A)	< 1,8 V (I=100 m A)
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz	10 Hz	10 Hz
Start Up Delay	< 100 ms	< 100 ms	< 100 ms	< 100 ms
Repeatability	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)
Electric Protections	Against polarity	Against polarity	Against polarity	Against polarity
Electric Protections	reversal inductive loads	reversal inductive loads	reversal inductive loads	reversal inductive loads
Temperature Limits	- 25 +70 C			
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		4x 0,25 mm^2		4x 0,25 mm^2
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output		250 g		250 g
Weight - Connector Output	210 g		210 g	

## CAPACITIVE A.C. M18



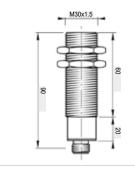


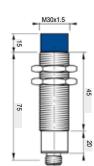


				STAN	IDARD	
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
OMINAL SWITC	HING DISTAN	ICE		28 mm	215 mm	
	PNP/NPN					
0-30 Vdc	NO-NC	4 wires	order No.			
0.001/1	PNP					
0-30 Vdc	NO	3 wires	order No.			
0-30 Vdc	PNP	3 wires				
0-30 Vac	NC	5 WILES	order No.			
0-30 Vdc	NPN	3 wires				
0-50 vuc	NO	5 WIIes	order No.			
0-30 Vdc	NPN	3 wires				
	NC	0 11100	order No.			
0-30 Vdc	PNP	4 wires				
	NO-NC		order No.			
0-30 Vdc	NPN NO NC	4 wires				
	NO-NC		order No.			
0-30 Vdc	NO-NC	2 wires				
			order No.			
0-250 Vac/Vdc	NO	2 wires		CSP40K4	CSP41K4	
			order No.	958901380	958901390	
0-250 Vac/Vdc	NC	2 wires	order No.			
		2/3 wires	order No.			
0-250 Vac	NO		order No.			
	Analog 0-20	0 3 wires	order No.			
0-30 Vdc	mA		order No.			
			order rto.			
IAMUR amplifier	NAMUR	2 wires	order No.			
ominal Voltage		1		20-250 Vac (-15/10%)-5A source current	20-250 Vac (-15/10%)-5A source current	
esidual Ripple				<10%	<10%	
ysteresis				< 15%	< 15%	
lax. Output Current				300 mA	300 mA	
lin. Output Current				2,5 mA	2,5 mA	
esidual Current				< 2,5 mA	< 2,5 mA	
etting				sensitivity adjustment trimmer	sensitivity adjustment trimmer	
peration Led				Yellow	Yellow	
witching Frequenc	:y			25 Hz	25 Hz	
tart Up Delay						
epeatability				< 5%	< 5%	
hort Circuit Protec	tion			Present(self-resetting)	Present(self-resetting)	
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
emperature Limit				- 25 +70 C	- 25 +70 C	
rotection Degree				IP67	IP67	
able Length						
able Section						
able Section Iousing Material				Plastic (PBT)	Plastic (PBT)	

## CAPACITIVE A.C. M30







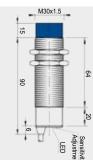
				STAN	DARD	
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITC	HING DISTAI	NCE		220 mm	230 mm	
10.20 \/d-	PNP/NPN	1				
10-30 Vdc NO-NC	NO-NC	4 wires	order No.			
10-30 Vdc	PNP	3 wires				
10-30 vuc	NO	5 WIIes	order No.			
10-30 Vdc	PNP	3 wires				
10 50 440	NC	5 10105	order No.			
10-30 Vdc	NPN		3 wires			
	NO	0 111 00	order No.			
10-30 Vdc	NPN	3 wires				
	NC		order No.			
10-30 Vdc	PNP	4 wires				
	NO-NC		order No.			
0-30 Vdc	NPN	4 wires				
	NO-NC		order No.			
10-30 Vdc	NO-NC	2 wires				
			order No.			
20-250 Vac/Vdc	NO	2 wires		CSP50K4	CSP51K4	
			order No.	958901400	958901410	
20-250 Vac/Vdc	NC	2 wires				
			order No.			
20-250 Vac	NO	2/3 wires				
			order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	andan Ma			
	IIIA		order No.			
NAMUR amplifier	NAMUR	2 wires	ordor No			
			order No.			

Nominal Voltage	20-250 Vac (-15/10%)-5A source current	20-250 Vac (-15/10%)-5A source current		
Residual Ripple	<10%	<10%		
lysteresis	< 15%	< 15%		
Aax. Output Current	300 mA	300 mA		
lin. Output Current	2,5 mA	2,5 mA		
esidual Current	< 2,5 mA	< 2,5 mA		
ietting	sensitivity adjustment trimmer	sensitivity adjustment trimmer		
peration Led	Yellow	Yellow		
witching Frequency	25 Hz	25 Hz		
tart Up Delay				
Repeatability	< 5%	< 5%		
hort Circuit Protection	Present(self-resetting)	Present(self-resetting)		
lectric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Femperature Limit	- 25 +70 C	- 25 +70 C		
Protection Degree	IP67	IP67		
able Length				
able Section				
lousing Material	Plastic (PBT)	Plastic (PBT)		
Veight – Cable Output				
Veight - Connector Output	200 g	200 g		

# **CAPACITIVE MULTIVOLTAGE M30**



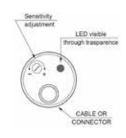




				STANDARD (TI	MER TRIMMER)									
				FLUSH	NON FLUSH									
				M12 conn	M12 conn									
NOMINAL SWITCH	ING DISTAN	E		20 mm	30 mm									
10-30 Vdc	PNP/NPN	4 wires												
10-30 Vac	NO-NC	4 WIES	order No.											
10-30 Vdc	PNP NO	3 wires	order No.											
	PNP		UIUEI NU.											
10-30 Vdc	NC	3 wires	order No.											
40.201/4-	NPN	2												
10-30 Vdc	NO	3 wires	order No.											
10-30 Vdc	NPN .	3 wires												
10-30 Vuc	NC	5 WIES	order No.											
10-30 Vdc	PNP	4 wires												
10 50 142	NO-NC	4 101105	order No.											
10-30 Vdc	NPN	4 wires												
	NO-NC		order No.											
10-30 Vdc	NO-NC	2 wires												
			order No.											
20-250 Vac/Vdc	NO	2 wires												
			order No.											
18230 VAC/DC	relay SPDT	relay SPDT	relay SPDT	relay SPDT	relay SPDT	relay SPDT	relay SPDT	relay SPDT	relay SPDT	AC/DC relay SPDT	6 wires		CS31	C532
			order No.	958901150 CS32TD5	958901220 CS31TD5									
18230 Vac/dc	relay SPDT (delay ON)	6 wires	order No.	958901360	958901350									
			order No.	CS32TE5	CS31TE5									
18230 VAC/DC	relay SPDT (delay OFF)	6 wires	order No.	958901370	958901210									
	(aciay of 17		Uluel NO.											
NAMUR amplifier	NAMUR	2 wires	order No.											
Nominal Voltage				18-230Vac/dc (-15/10%)	18-230Vac/dc (-15/10%)									
Residual Ripple				<10%	<10%									
Hustorosis				<10%	<10%									

Nominal Voltage	18-250VaC/uc (-15/10%)	10-230VaC/UC (-13/10%)
Residual Ripple	<10%	<10%
Hysteresis	<10%	<10%
Max. Output Current	3A 30 Vac- 1A 220 Vac (90 W, 360 VA)	3A 30 Vac- 1A 220 Vac (90 W, 360 VA)
Absorption	2,5 VA	2,5 VA
Residual Current		
Setting	sensitivity and time adj. trimmer	sensitivity and time adj. trimmer
Operation Led	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz
Start Up Delay	<300 ms	<300 ms
Repeatability	<5%	<5%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	- 25 +70 C	- 25 +70 C
Protection Degree	IP65	IP65
Cable Length	2 m	2 m
Cable Section	6x0,30 mm²	6x0,30 mm <sup>2</sup>
Housing Material	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output	250 g	250 g
Weight - Connector Output		

## **CAPACITIVE SETTINGS & CONNECTIONS**



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#### Sensitivity adjustment

The sensitivity adjustment must be done when the sensor is installed in a definite and steady position. The regulation must be done in a position half way between minimum and maximum, because, being air dielectric, a strong humidity variation could cause, if the regulation is very light, nuisance tripping. The sensing distance of the sensor depends on the materials to detect, on its dimension and conductivity. The distance could change according to temperature variations.

#### Timer adjustment

The timer trimmer allows to set a delay, on the activation (delay ON) or in the de-activation of the output, depends on the model, after the detection of the object. The output will remain active (or inactive) proportionally to the setting point of the screw, starting from 1 second up to 5 minutes.

#### M8 4-pole NO-NC models

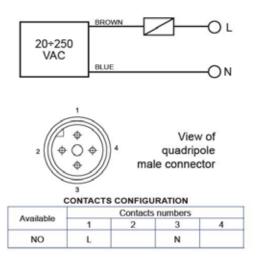


SENSITIVITY ADJUS

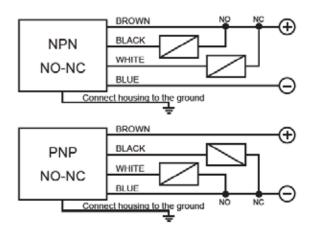
CONTACTS CONFIGURATION

Ordered	Contacts numbers				
Output	1	2	3	4	
NPN/PNP NO+NC	+	NC	-	NO	

#### 2 wires Vac models



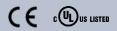
#### 4 wires NO-NC Vdc model



#### 6 wires Mulivoltage models



2, 3, 4 wires M12, M8 connector Axial or radial 90° Shielded or unshielded Double key A.C. cable 3, 5, 7, 10, 15, 25m cable



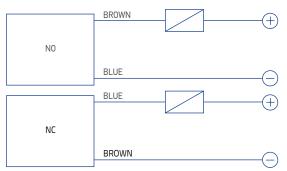
# CABLES, CONNECTORS & ACCESSORIES



## CABLES, CONNECTORS & ACCESSORIES

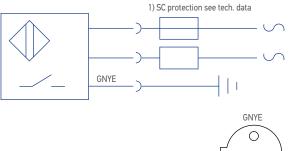
#### **2 WIRES SENSORS**

#### 2 Wires No-Nc



WARNING: The load can be indifferently connected in series to the blue wire or to the brown wire to simulate NPN or PNP functionning logic.

#### Inductive Ac



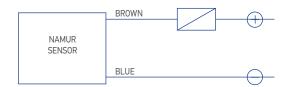
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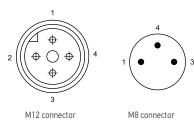
ΒK

 $\cap$ BU

Double key connector for inductive AC sensors

#### Namur





M8 connector

CONTACTS CONFIGURATION					
Available	Contacts numb	ers			
	1	2	3	4	
NAMUR	+		-		

3 M12 connector

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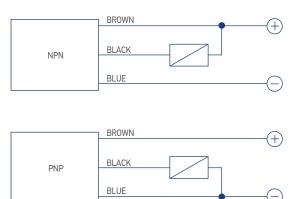
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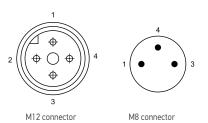
2

CONTACTS CONFIGURATION						
Available	Contacts numbers					
Available	1	2	3	4		
NO	+		-			
NC	- +					

#### **3 WIRES SENSORS**

3 Wires Pnp Or Npn, No Or Nc

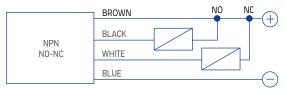


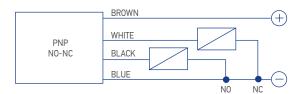


CONTACTS CONFIGURATION					
Available	Contacts numb	ers			
	1	2	3	4	
(NO or NC)	+		-	NO/NC	

#### **4 WIRES SENSORS**

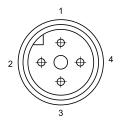
#### 4 Wires (No+Nc)





#### 4 Wires (Pnp/Npn, No/Nc)

N 1		
	BROWN	)
NPN	WHITE	/
NO	BLACK	
	BLUE	`
	BLUE	/ \
NPN	WHITE	)
NC	BLACK	
	BROWN	)
	BROWN	Ś
PNP	WHITE	/ 
NO	BLACK	
	BLUE	)
	BLUE	/ \
PNP	WHITE	/
NC	BLACK	
	BROWN	)
L		/



CONTACTS CONFIGURATION					
<u>.</u>	Contacts numbers				
Output	1	2	3	4	
NO + NC	+	NC	-	NO	

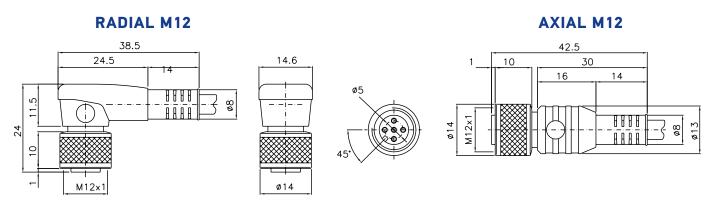
	CONTACTS CONFIGURATION				
Output	Contacts numb	ers			
Output	1	2	3	4	
NPN NO	+	NO	-	-	
NPN NC	-	NC	+	-	
PNP NO	+	+	-	NO	
PNP NC	-	+	+	NC	

## CABLES, CONNECTORS & ACCESSORIES

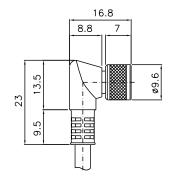
CONNECTOR & DIRECTION	WIRES	STYLE	CABLE LENGHT	MODEL	ORDER No.
			M8		
		Grey, P.V.C.	3 m	CS-B1-01-G-03	95A251490
M8 Connector	3		5 m	CS-B1-01-G-05	95A251510
(Axial)		P.U.R.	2 m	CS-B1-01-R-02	95A251580
			5 m	CS-B1-01-R-05	95A251600
		Grey, P.V.C.	3 m	CS-B2-01-G-03	95A251500
M8 Connector	3		5 m	CS-B2-01-G-05	95A251520
(Radial 90°)	5	P.U.R.	2 m	CS-B2-01-R-02	95A251590
			5 m	CS-B2-01-R-05	95A251610
			3 m	CS-B1-02-G-03	95A251420
		Grey, P.V.C.	5 m	CS-B1-02-G-05	95A251430
			7 m	CS-B1-02-G-07	95A251440
M8 Connector	4		10 m	CS-B1-02-G-10	95A251480
(Axial)		P.U.R.	2 m	CS-B1-02-R-02	95A251620
		-	5 m	CS-B1-02-R-05	95A251640
		OIL resistant	5 m	CS-B1-02-0-05	95A251730
		(CEI 2034-01)	10 m	CS-B1-02-0-10	95A251100
			3 m	CS-B2-02-G-03	95A251450
		Grey, PVC	5 m	CS-B2-02-G-05	95A251460
		0.03,1 10	7 m	CS-B2-02-G-07	95A251470
M8 Connector	4		10 m	CS-B2-02-G-10	95A251530
(Radial 90°)	7	P.U.R.	2 m	CS-B2-02-R-02	95A251630
			5 m	CS-B2-02-R-05	95A251650
		OIL resistant	5 m	CS-B2-02-0-05	95A251720
		(CEI 2034-01)	10 m	CS-B2-02-0-10	95A251110
			M12		
		Grey, P.V.C.	3 m	CS-A1-01-G-03	95A251290
M12 Connector	3		5 m	CS-A1-01-G-05	95A251300
(Axial)	3		7 m	CS-A1-01-G-07	95A251320
			10 m	CS-A1-01-G-10	95A251340
		Grey, P.V.C.	3 m	CS-A2-01-G-03	95A251200
			5 m	CS-A2-01-G-05	95A251210
			7 m	CS-A2-01-G-07	95A251220
M12 Connector (Radial 90°)	3		10 m	CS-A2-01-G-10	95A251230
(riddide / o )			3 m	CS-A2-01-0-03	95A251660
		OIL resistant (CEI 2034-01)	5 m	CS-A2-01-0-05	95A251670
		(0212034 01)	10 m	CS-A2-01-0-10	95A251680
M12 Connector with LED			5 m	CS-A2-11-G-05	95A251310
for PNP N.O. sensors) (Radial	3	Grey, P.V.C.	10 m	CS-A2-11-G-10	95A251330
90°)	2	0			
nielded M12 Connector (Axial)	3	Grey, P.V.C.	10 m	CV-A1-21-G-10	95ACC2060
2 Connector Axial Double Keyd		0	2 m	CS-A1-21-R-02	95ACC8000
+ PE for AC inductive	3	Orange, P.V.C.	3 m	CS-A1-21-R-03	95ACC8010
			5 m	CS-A1-21-R-05	95ACC8020
			3 m	CS-A1-02-G-03	95A251380
		Grey, P.V.C.	5 m	CS-A1-02-G-05	95A251270
M12 Connector	4		7 m	CS-A1-02-G-07	95A251280
(Axial)			10 m	CS-A1-02-G-10	95A251390
		P.U.R.	2 m	CS-A1-02-R-02	95A251540
			5 m	CS-A1-02-R-05	95A251560
			3 m	CS-A2-02-G-03	95A251360
		Grey, P.V.C.	5 m	CS-A2-02-G-05	95A251240
			7 m	CS-A2-02-G-07	95A251245
M12 Connector	4		10 m	CS-A2-02-G-10	95A251260
(Radial 90°)		P.U.R.	2 m	CS-A2-02-R-02	95A251550
		1.0.1.	5 m	CS-A2-02-R-05	95A251570
		OIL resistant	5 m	CS-A2-02-0-05	95A251690
		(CEI 2034-01)	10 m	CS-A2-02-0-10	95A251700
M12 Connector with LED			3 m	CS-A2-12-G-03	95A251400
(for PNP N.O. sensors)	4	Grey, P.V.C.	5 m	CS-A2-12-G-05	95A251350
(Radial 90°)					

			3 m	CV-A1-22-B-03	95ACC1480
Shielded M12 Connector (Axial) 4			5 m	CV-A1-22-B-05	95ACC1490
	4	Black, P.V.C.	10 m	CV-A1-22-B-10	95ACC1500
			15 m	CV-A1-22-B-15	95ACC2070
			25 m	CV-A1-22-B-25	95ACC2090
			3 m	CV-A2-22-B-03	95ACC1540
Shielded M12 Connector (Radial 90°)	4	Black, P.V.C.	5 m	CV-A2-22-B-05	95ACC1550
(Itadiat 70 )		10 m	CV-A2-22-B-10	95ACC1560	
			3 m	CS-A1-02-U-03	95ASE1120
			5 m	CS-A1-02-U-05	95ASE1130
M12 Connector (Axial)	4	4 U.L., Black, P.V.C.	10 m	CS-A1-02-U-10	95ASE1140
			15 m	CS-A1-02-U-15	95ASE1150
			25 m	CS-A1-02-U-25	95ASE1160
		CONNECTOR	(not cabled)		
M12 Connector (Axial)	4	Black	Connector- not cabled	CS-A1-02-B-NC	G5085002
M12 Connector (Radial 90°)	4	Black	Connector- not cabled	CS-A2-02-B-NC	G5085003

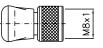
### CONNECTOR



#### **RADIAL M8**



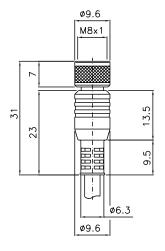
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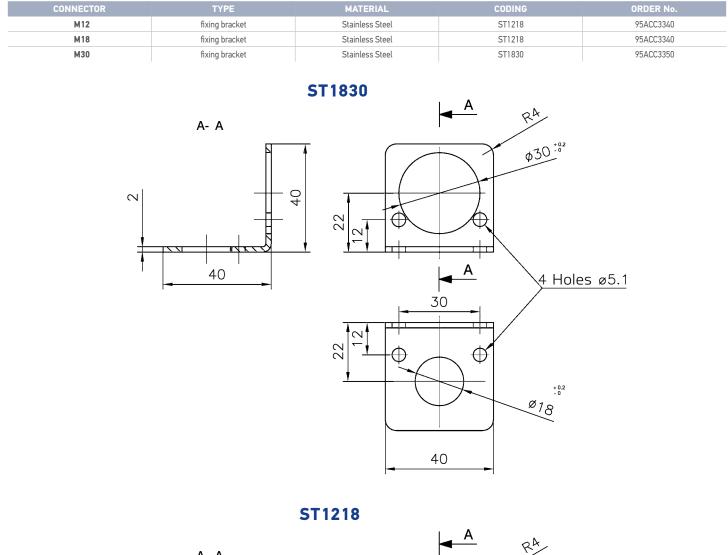


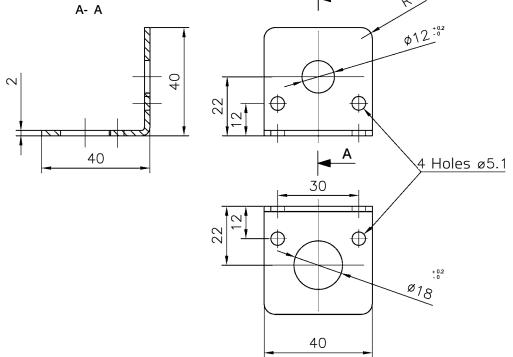
#### AXIAL M8



## CABLES, CONNECTORS & ACCESSORIES

Accessories Selection And Order Information





88 CATALOG | Inductive and Capacitive Sensors

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## NOTES

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IS-04-A1-03	95B061011	STAINLESS STEEL	34
IS-04-A3-03	95B061001	STAINLESS STEEL	34
IS-05-A1-03	95B061041	BASIC	35
IS-05-A1-S1	95B061051	BASIC	35
IS-05-A20-03	95B065410	NAMUR	62
IS-05-A3-03	95B061021	BASIC	35
IS-05-A3-S1	95B061031	BASIC	35
IS-05-A4-03	95B065420	BASIC	35
IS-05-E3-03	95B065400	BASIC	35
IS-65-A1-03	95B064730	BASIC	10
IS-65-A1-51	95B066050	BASIC	10
IS-65-A20-03			63
	95B066290	NAMUR	
IS-65-A20-S1	95B066310	NAMUR	63
IS-65-A2-03	95B064770	BASIC	10
IS-65-A2-S1	95B066090	BASIC	10
IS-65-A3-03	95B064650	BASIC	10
IS-65-A3-S1	95B064970	BASIC	10
IS-65-A4-03	95B064690	BASIC	10
IS-65-A4-S1	95B066010	BASIC	10
IS-65-B1-03	95B064750	BASIC	11
IS-65-B1-S1	95B066070	BASIC	11
IS-65-B2-03	95B064790	BASIC	11
IS-65-B2-U3	95B066110	BASIC	11
IS-65-B3-03	95B064670	BASIC	11
IS-65-B3-S1	95B064990	BASIC	11
IS-65-B4-03	95B064710	BASIC	11
IS-65-B4-S1	95B066030	BASIC	11
IS-65-C1-03	95B064890	BASIC	10
IS-65-C1-S1	95B066210	BASIC	10
IS-65-C20-03	95B066300	NAMUR	63
IS-65-C20-S1	95B066320	NAMUR	63
IS-65-C2-03	95B064930	BASIC	10
IS-65-C2-S1	95B066250	BASIC	10
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IS-65-C3-03	95B064810	BASIC	10
IS-65-C3-S1	95B066130	BASIC	10
IS-65-C4-03	95B064850	BASIC	10
IS-65-C4-S1	95B066170	BASIC	10
IS-65-D1-03	95B064910	BASIC	11
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IS-65-D4-S1	95B066190	BASIC	11
IS-65-G1-03	95B064740	BASIC	12
IS-65-G1-S1	95B066060	BASIC	12
IS-65-G2-03	95B064780	BASIC	12
IS-65-G2-S1	95B066100	BASIC	12
IS-65-G3-03	95B064660	BASIC	12
IS-65-G3-S1	95B064980	BASIC	12
IS-65-G4-03	95B064700	BASIC	12
IS-65-G4-S1	95B066020	BASIC	12
IS-65-H1-03	95B064900	BASIC	13
IS-65-H1-S1	95B066220	BASIC	13
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	95B066260	BASIC	13
IS-65-H3-03	95B064820	BASIC	13
IS-65-H3-S1	95B066140	BASIC	13
IS-65-H4-03	95B064860	BASIC	13
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IS-65-M1-S1	95B066080	STAINLESS STEEL	36
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IS-65-M2-S1	95B066120	STAINLESS STEEL	36
IS-65-M3-03	95B064680	STAINLESS STEEL	36
IS-65-M3-S1	95B066000	STAINLESS STEEL	36
IS-65-M4-03	95B064720	STAINLESS STEEL	36

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IS-65-N1-S1	95B066240	STAINLESS STEEL	37
IS-65-N2-03	95B064960	STAINLESS STEEL	37
IS-65-N2-S1	95B066280	STAINLESS STEEL	37
IS-65-N3-03	95B064840	STAINLESS STEEL	37
IS-65-N3-S1	95B066160	STAINLESS STEEL	37
IS-65-N4-03	95B064880	STAINLESS STEEL	37
IS-65-N4-S1	95B066200	STAINLESS STEEL	37
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SENSOR	Order No.	Category	Pa
IS-08-A1-03	95B061121	BASIC	14
IS-08-A1-S1	95B061141	BASIC	14
IS-08-A1-S2	95B061131	BASIC	14
IS-08-A20-03	95B066740	NAMUR	64
IS-08-A20-03	95B066760	NAMUR	64
IS-08-A20-S1	95B066780	NAMUR	64
IS-08-A2-03 IS-08-A2-S1	95B061151 95B061171	BASIC	14
IS-08-A2-S1	95B061161	BASIC	14
IS-08-A3-03	95B061061	BASIC	14
IS-08-A3-S1	95B061081	BASIC	14
IS-08-A3-S2	95B061071	BASIC	14
IS-08-A4-03	95B061091	BASIC	14
IS-08-A4-S1	95B061111	BASIC	14
IS-08-A4-S2	95B061101	BASIC	14
IS-08-B1-03	95B061921	BASIC	16
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IS-08-B2-03	95B061951	BASIC	16
IS-08-B2-S1	95B066890	BASIC	16
IS-08-B2-S2	95B066620	BASIC	16
IS-08-B3-03	95B061861	BASIC	16
IS-08-B3-S1	95B066810	BASIC	16
IS-08-B3-S2	95B066530	BASIC	16
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IS-08-C1-S2	95B061531	BASIC	15
IS-08-C20-03	95B066750	NAMUR	65
IS-08-C20-S1	95B066790	NAMUR	65
IS-08-C20-S2	95B066770	NAMUR	65
IS-08-C2-03	95B061551	BASIC	15
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IS-08-D2-03	95B062351	BASIC	17
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IS-08-D2-S2	95B066720	BASIC	17
IS-08-D3-03	95B066430	BASIC	17
IS-08-D3-S1	95B066920	BASIC	17
IS-08-D3-S2	95B066650	BASIC	17
IS-08-D4-03	95B062291	BASIC	17
IS-08-D4-S1	95B066940	BASIC	17
IS-08-D4-S2	95B066670	BASIC	17
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IS-08-G1-S1	95B066850	BASIC	18
IS-08-G1-S2	95B066580	BASIC	18
IS-08-G2-03	95B066390	BASIC	18
IS-08-G2-S1 IS-08-G2-S2	95B066880	BASIC	18
	95B066610	BASIC	18

IS-08-G3-03	95B066330	BASIC	18
IS-08-G3-S1	95B066800	BASIC	18
IS-08-G3-S2	95B066520	BASIC	18
IS-08-G4-03	95B066350	BASIC	18
IS-08-G4-S1	95B063131	BASIC	18
IS-08-G4-S2	95B066550	BASIC	18
IS-08-H1-03	95B066480	BASIC	19
IS-08-H1-S1	95B066960	BASIC	19
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IS-08-H2-03	95B066500	BASIC	19
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IS-08-H2-S2	95B063301	BASIC	19
IS-08-H3-03	95B066420	BASIC	19
IS-08-H3-S1	95B066910	BASIC	19
IS-08-H3-S2	95B066640	BASIC	19
IS-08-H4-03	95B066460	BASIC	19
IS-08-H4-S1	95B063251	BASIC	19
IS-08-H4-S2	95B063241	BASIC	19
IS-08-M1-03	95B066380	STAINLESS STEEL	38
IS-08-M1-S1	95B066870	STAINLESS STEEL	38
IS-08-M1-S2	95B066600	STAINLESS STEEL	38
IS-08-M2-03	95B066400	STAINLESS STEEL	38
IS-08-M2-S1		STAINLESS STEEL	38
IS-08-M2-S1	95B066900		
	95B066630	STAINLESS STEEL	38
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IS-08-M3-S1	95B066820	STAINLESS STEEL	38
IS-08-M3-S2	95B066540	STAINLESS STEEL	38
IS-08-M4-03	95B066360	STAINLESS STEEL	38
IS-08-M4-S1	95B066840	STAINLESS STEEL	38
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IS-08-N1-S1	95B066980	STAINLESS STEEL	39
IS-08-N1-S2	95B066710	STAINLESS STEEL	39
IS-08-N2-03	95B066510	STAINLESS STEEL	39
IS-08-N2-S1	95B067010	STAINLESS STEEL	39
IS-08-N2-S2	95B066730	STAINLESS STEEL	39
IS-08-N3-03	95B066440	STAINLESS STEEL	39
IS-08-N3-S1	95B066930	STAINLESS STEEL	39
IS-08-N3-S2	95B066660	STAINLESS STEEL	39
IS-08-N4-03	95B066470	STAINLESS STEEL	39
IS-08-N4-S1	95B066950	STAINLESS STEEL	39
IS-08-N4-S2	95B066680	STAINLESS STEEL	39
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IS-12-A0-03	95B064030	BASIC	20
IS-12-A0-S2	95B064060	BASIC	20
IS-12-A1-03	95B061241	BASIC	20
IS-12-A1-S2	95B061251	BASIC	20
IS-12-A15-03	95B060680	INDUCTIVE AC	56
IS-12-A15-S2	95B060690	INDUCTIVE AC	56
IS-12-A20-03	95B064160	NAMUR	66
IS-12-A20-S2	95B064180	NAMUR	66
IS-12-A2-03	95B061271	BASIC	20
IS-12-A2-S2	95B061281	BASIC	20
IS-12-A3-03	95B061181	BASIC	20
IS-12-A3-S2	95B061191	BASIC	20
IC 12 A/ D2	060041211	DVCIC	20

BASIC

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IS-12-C20-03	95B064170	NAMUR	66
IS-12-C20-S2	95B064190	NAMUR	66
IS-12-C2-03	95B061671	BASIC	20
IS-12-C2-S2	95B061681	BASIC	20
IS-12-C3-03	95B061581	BASIC	20
IS-12-C3-S2	95B061591	BASIC	20
IS-12-C4-03		BASIC	20
	95B061611		
IS-12-C4-S2	95B061621	BASIC	20
IS-12-C9-03	95B064110	BASIC	20
IS-12-C9-S2	95B064140	BASIC	20
IS-12-D1-03	95B062441	BASIC	21
IS-12-D1-S2	95B062451	BASIC	21
IS-12-D2-03	95B062471	BASIC	21
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IS-12-D3-S2	95B062391	BASIC	21
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IS-12-E3-03	95B067690	BASIC	22
IS-12-E3-S2	95B067650	BASIC	22
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IS-12-E9-03	95B067200	BASIC	22
IS-12-E9-S2			
	95B067240	BASIC	22
IS-12-F1-03	95B067740	BASIC	22
IS-12-F1-S2	95B067020	BASIC	22
IS-12-F0-03	95B067210	BASIC	22
IS-12-F0-S2	95B067250	BASIC	22
IS-12-F2-03	95B067750	BASIC	22
IS-12-F2-S2	95B067710	BASIC	22
IS-12-F3-03	95B067760	BASIC	22
IS-12-F3-S2	95B067720	BASIC	22
IS-12-F4-03	95B067770	BASIC	22
IS-12-F4-S2	95B067730	BASIC	22
IS-12-F9-03	95B067220	BASIC	22
IS-12-F9-S2	95B067260		22
		BASIC	
IS-12-G1-03	95B063361	BASIC	23
IS-12-G1-S2	95B063371	BASIC	23
IS-12-G2-03	95B063381	BASIC	23
IS-12-G2-S2	95B063391	BASIC	23
IS-12-G3-03	95B063321	BASIC	23
IS-12-G3-S2	95B063331	BASIC	23
IS-12-G4-03	95B063341	BASIC	23
IS-12-G4-S2	95B063351	BASIC	23
IS-12-G5-03	95B062681	BASIC	23
IS-12-G5-S2	95B062691	BASIC	23
IS-12-G6-03	95B062661	BASIC	23
IS-12-66-52	95B062671	BASIC	23
IS-12-H1-03	95B063441	BASIC	23
IS-12-H1-S2	95B063451	BASIC	23
IS-12-H2-03	95B063461	BASIC	23
IS-12-H2-S2	95B063471	BASIC	23
IS-12-H3-03	95B063401	BASIC	23
IS-12-H3-S2	95B063411	BASIC	23
IS-12-H4-03	95B063421	BASIC	23
IS-12-H4-S2	95B063431	BASIC	23
IS-12-H5-03	95B062761	BASIC	23
IS-12-H5-S2	95B062771	BASIC	23
IS-12-H6-03	95B062741	BASIC	23
		BASIC	23
IS-12-H6-S2	95B062751		
IS-12-I1-S2	95B065340	METAL FACE	48
IS-12-L1-S2	95B063871	METAL FACE	48
IS-12-M1-S2	95B060240	STAINLESS STEEL	40
IS-12-M2-S2	95B060250	STAINLESS STEEL	40
IS-12-M3-S2	95B060260	STAINLESS STEEL	40
			/0
IS-12-M4-S2	95B060270	STAINLESS STEEL	40
IS-12-M4-S2 IS-12-N1-S2	95B060270 95B060280	STAINLESS STEEL	40

IS-12-A4-03

IS-12-A4-S2

IS-12-A9-03

IS-12-A9-S2

IS-12-B1-03

IS-12-B1-S2

IS-12-B2-03

IS-12-B2-S2

IS-12-B3-03

IS-12-B3-S2

IS-12-B4-03

IS-12-B4-S2

IS-12-C0-03

IS-12-C0-S2

IS-12-C1-03

IS-12-C1-S2

95B061211

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95B064100

95B063931

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95B062011

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95B064040

95B064080

95B061641

95B061651

IS-12-N4-S2	95B060310	STAINLESS STEEL	40
IS-12-01-S2	95B060000	STAINLESS STEEL	41
IS-12-02-S2	95B060010	STAINLESS STEEL	41
IS-12-03-S2	95B060020	STAINLESS STEEL	41
IS-12-04-S2	95B060030	STAINLESS STEEL	41
IS-12-04-52		STAINLESS STEEL	41
	95B060040		
IS-12-P2-S2	95B060050	STAINLESS STEEL	41
IS-12-P3-S2	95B060060	STAINLESS STEEL	41
IS-12-P4-S2	95B060070	STAINLESS STEEL	41
IS-12-P4-S2	95B060070	STAINLESS STEEL	41
IS-F12-S1-S2	95B065360	WELD FIELD IMMUNE	52
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IS-18-A0-03	95B064230	BASIC	24
IS-18-A0-S2	95B064260	BASIC	24
IS-18-A1-03	95B061341	BASIC	24
IS-18-A1-S2	95B061351	BASIC	24
IS-18-A15-03	95B060770	INDUCTIVE AC	57
IS-18-A15-S2	95B060780	INDUCTIVE AC	57
IS-18-A20-03	95B064360	NAMUR	67
IS-18-A20-S2	95B064380	NAMUR	67
IS-18-A2-03	95B061361	BASIC	24
IS-18-A2-S2	95B061371	BASIC	24
IS-18-A3-03	95B061301	BASIC	24
IS-18-A3-S2	95B061311	BASIC	24
IS-18-A4-03	95B061321	BASIC	24
IS-18-A4-S2	95B061331	BASIC	24
IS-18-A9-03	95B064300	BASIC	24
IS-18-A9-S2	95B063941	BASIC	24
IS-18-B1-03	95B062141	BASIC	25
IS-18-B1-S2	95B062151	BASIC	25
IS-18-B2-03	95B062161	BASIC	25
IS-18-B2-S2	95B062171	BASIC	25
IS-18-B3-03	95B062101	BASIC	25
IS-18-B3-S2	95B062111	BASIC	25
IS-18-B4-03	95B062121	BASIC	25
IS-18-B4-S2	95B062131	BASIC	25
IS-18-C0-03	95B064240	BASIC	24
	95B064280	BASIC	24
IS-18-C0-S2			
IS-18-C1-03	95B061741	BASIC	24
IS-18-C1-S2	95B061751	BASIC	24
IS-18-C20-03	95B064370	NAMUR	67
IS-18-C20-S2	95B064390	NAMUR	67
IS-18-C2-03	95B061761	BASIC	24
IS-18-C2-S2	95B061771	BASIC	24
IS-18-C3-03	95B061701	BASIC	24
IS-18-C3-S2	95B061711	BASIC	24
IS-18-C4-03	95B061721	BASIC	24
IS-18-C4-S2	95B061731	BASIC	24
IS-18-C9-03	95B064310	BASIC	24
IS-18-C9-S2	95B064340	BASIC	24
IS-18-D1-03	95B062541	BASIC	25
IS-18-D1-S2	95B062551	BASIC	25
IS-18-D2-03	95B062561	BASIC	25
IS-18-D2-S2		BASIC	
	95B062571		25
IS-18-D3-03	95B062501	BASIC	25
IS-18-D3-S2	95B062511	BASIC	25
IS-18-D4-03	95B062521	BASIC	25
IS-18-D4-S2	95B062531	BASIC	25
IS-18-E1-S2	95B067050	BASIC	26
IS-18-E0-03	95B067270	BASIC	26
IS-18-E0-S2	95B067310	BASIC	26
IS-18-E1-03	95B067810	BASIC	26
IS-18-E2-03	95B067820	BASIC	26
IS-18-E2-S2	95B067780	BASIC	26
IS-18-E3-03	95B067830	BASIC	26
IS-18-E3-S2	95B067790	BASIC	26
IS-18-E4-03	95B067840	BASIC	26
IS-18-E4-S2	95B067800	BASIC	26
IS-18-E9-03	95B067280	BASIC	26
IC 10 F0 C2	95B067320	BASIC	26
IS-18-E9-S2	700007020		

IS-18-F0-S2	95B067330	BASIC	26
IS-18-F1-03	95B067880	BASIC	26
IS-18-F1-S2	95B067040	BASIC	
IS-18-F2-03	95B067890	BASIC	
IS-18-F2-S2	95B067850	BASIC	
IS-18-F3-03	95B067900	BASIC	
IS-18-F3-S2	95B067860	BASIC	26
IS-18-F4-03	95B067910	BASIC	26
IS-18-F4-S2	95B067870	BASIC	26
IS-18-F9-03	95B067300	BASIC	26
IS-18-F9-S2	95B067340	BASIC	26
IS-18-G1-03	95B063521	BASIC	27
IS-18-G1-S2	95B063531	BASIC	27
IS-18-G2-03	95B063541	BASIC	27
IS-18-G2-S2	95B063551	BASIC	27
IS-18-G3-03	95B063061	BASIC	27
IS-18-G3-S2	95B063491	BASIC	27
IS-18-G4-03		BASIC	27
	95B063501		
IS-18-G4-S2	95B063511	BASIC	27
IS-18-G5-03	95B062721	BASIC	27
IS-18-G5-S2	95B062731	BASIC	27
IS-18-G6-03	95B064200	BASIC	27
IS-18-G6-S2	95B062711	BASIC	27
IS-18-H1-03	95B063601	BASIC	27
IS-18-H1-S2	95B063611	BASIC	27
IS-18-H2-03	95B063621	BASIC	27
IS-18-H2-S2	95B063631	BASIC	27
IS-18-H3-03	95B063561	BASIC	27
IS-18-H3-S2	95B063571	BASIC	27
IS-18-H4-03	95B063581	BASIC	27
IS-18-H4-S2	95B063591	BASIC	27
IS-18-H5-03	95B064220	BASIC	27
IS-18-H5-S2	95B062811	BASIC	27
IS-18-H6-03	95B064210	BASIC	27
IS-18-H6-S2	95B062791	BASIC	27
IS-18-I1-S2	95B065350	METAL FACE	49
IS-18-L1-S2	95B063881	METAL FACE	49
IS-18-M1-S2	95B060320	STAINLESS STEEL	42
IS-18-M2-S2	95B060330	STAINLESS STEEL	42
IS-18-M3-S2	95B060340	STAINLESS STEEL	42
IS-18-M4-S2	95B060350	STAINLESS STEEL	42
IS-18-N1-S2	95B060360	STAINLESS STEEL	42
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IS-18-N3-S2	95B060380	STAINLESS STEEL	42
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IS-18-01-S2	95B060080	STAINLESS STEEL	43
IS-18-02-S2	95B060090	STAINLESS STEEL	43
IS-18-03-S2	95B060100	STAINLESS STEEL	43
IS-18-04-S2	95B060110	STAINLESS STEEL	43
IS-18-P1-S2	95B060120	STAINLESS STEEL	43
IS-18-P2-S2	95B060130	STAINLESS STEEL	43
IS-18-P3-S2	95B060140	STAINLESS STEEL	43
IS-18-P4-S2	95B060150	STAINLESS STEEL	43
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IS-30-A0-03	95B064460	BASIC	28
IS-30-A0-S2	95B064490	BASIC	28
IS-30-A1-03	95B061421	BASIC	28
IS-30-A1-S2	95B061431	BASIC	28
IS-30-A15-03	95B060810	INDUCTIVE AC	58
IS-30-A15-S2	95B060820	INDUCTIVE AC	58
IS-30-A20-03	95B064610	NAMUR	68
IS-30-A20-S2	95B064630	NAMUR	68
IS-30-A2-03	95B061441	BASIC	28
IS-30-A2-S2	95B061451	BASIC	28
IS-30-A3-03	95B061381	BASIC	28
IS-30-A3-S2	95B061391	BASIC	28
IS-30-A4-03	95B061401	BASIC	28
IS-30-A4-S2	95B061411	BASIC	28
IS-30-A9-03	95B064530	BASIC	28

IS-30-A9-S2	95B064570	BASIC	28
IS-30-B1-03	95B062221	BASIC	29
IS-30-B1-S2	95B062231	BASIC	29
IS-30-B2-03	95B062241	BASIC	29
IS-30-B2-S2	95B062251	BASIC	29
IS-30-B3-03	95B062181	BASIC	29
IS-30-B3-S2	95B062191	BASIC	29
IS-30-B4-03	95B062201	BASIC	29
IS-30-B4-03	95B062201	BASIC	29
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IS-30-C0-03	95B064510	BASIC	28
	95B061821	BASIC	28
IS-30-C1-03 IS-30-C1-S2	95B061821	BASIC	28
IS-30-C20-03	95B064620	NAMUR	68
IS-30-C20-S2	95B064640	NAMUR	68
IS-30-C2-03	95B061841	BASIC	28
IS-30-C2-S2	95B061851	BASIC	28
IS-30-C3-03	95B061781	BASIC	28
IS-30-C3-S2	95B061791	BASIC	28
IS-30-C4-03	95B061801	BASIC	28
IS-30-C4-S2	95B061811	BASIC	28
IS-30-C9-03	95B064550	BASIC	28
IS-30-C9-S2	95B064590	BASIC	28
IS-30-D1-03	95B062621	BASIC	29
IS-30-D1-S2	95B062631	BASIC	29
IS-30-D2-03	95B062641	BASIC	29
IS-30-D2-S2	95B062651	BASIC	29
IS-30-D3-03	95B062581	BASIC	29
IS-30-D3-S2	95B062591	BASIC	29
IS-30-D4-03	95B062601	BASIC	29
IS-30-D4-S2	95B062611	BASIC	29
IS-30-E0-03	95B067350	BASIC	30
IS-30-E0-S2	95B067390	BASIC	30
IS-30-E1-03	95B067950	BASIC	30
IS-30-E1-S2	95B067060	BASIC	30
IS-30-E2-03	95B067960	BASIC	30
IS-30-E2-S2	95B067920	BASIC	30
IS-30-E3-03	95B067970	BASIC	30
IS-30-E3-S2	95B067930	BASIC	30
IS-30-E4-03	95B067980	BASIC	30
IS-30-E4-S2	95B067940	BASIC	30
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IS-30-F0-03	95B067370	BASIC	30
IS-30-F0-S2	95B067410	BASIC	30
IS-30-F1-03	95B068030	BASIC	30
IS-30-F1-S2	95B067990	BASIC	30
IS-30-F2-03	95B068040	BASIC	30
IS-30-F2-S2	95B068000	BASIC	30
IS-30-F3-03	95B068050	BASIC	30
IS-30-F3-S2	95B068010	BASIC	30
IS-30-F4-03	95B068060	BASIC	30
IS-30-F4-S2	95B068020	BASIC	30
IS-30-F9-03	95B067380	BASIC	30
IS-30-F9-S2	95B067420	BASIC	30
IS-30-G1-03	95B063681	BASIC	31
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IS-30-G2-03	95B063701	BASIC	31
IS-30-G2-S2	95B063711	BASIC	31
IS-30-G3-03	95B063641	BASIC	31
IS-30-G3-S2	95B063651	BASIC	31
IS-30-G4-03	95B063661	BASIC	31
IS-30-G4-S2	95B063671	BASIC	31
IS-30-G5-03	95B063821	BASIC	31
IS-30-G5-S2	95B063831	BASIC	31
IS-30-66-03	95B064400	BASIC	31
IS-30-G6-S2	95B064430	BASIC	31
IS-30-H1-03	95B063761	BASIC	31
IS-30-H1-S2	95B063771	BASIC	31
IS-30-H2-03	95B063781	BASIC	31
IS-30-H2-S2	95B063791	BASIC	31
IS-30-H3-03	95B063721	BASIC	31
IS-30-H3-S2	95B063731	BASIC	31

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IS-30-H4-S2	95B063751			
IS-30-H5-03	95B064420	BASIC	31	
IS-30-H5-S2	95B064450	BASIC	31	
IS-30-H6-03	95B064410	BASIC 3		
IS-30-H6-S2	95B064440	BASIC	31	
IS-30-M1-S2	95B060400	STAINLESS STEEL	44	
IS-30-M2-S2	95B060410	STAINLESS STEEL	44	
IS-30-M3-S2	95B060420	STAINLESS STEEL	44	
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IS-30-02-S2	95B060170	STAINLESS STEEL	45	
IS-30-03-S2	95B060180	STAINLESS STEEL	45	
IS-30-04-S2	95B060190	STAINLESS STEEL 4		
IS-30-P1-S2	95B060200	STAINLESS STEEL	45	
IS-30-P2-S2	95B060210	STAINLESS STEEL	45	
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IS-30-P4-S2	95B060230	STAINLESS STEEL 4		
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IS-40-C11-S3	95B065330	SQUARE	74	
IS-40-W5-S3	95B065240	SQUARE	72	
IS-40-W6-S3	95B065230	SQUARE	72	
IS-40-W7-S3	95B065250	SQUARE	73	
IS-40-W8-S3	95B065260	SQUARE	73	
IS-40-X5-S2	95B065320	SQUARE	74	
IS-40-X6-S2	95B065310	SQUARE	74	
IS-40-Y5-S3	95B065280	SQUARE	72	
IS-40-Y6-S3	95B065270	SQUARE	72	
IS-40-Y7-S3	95B065290	SQUARE	73	
IS-40-Y8-S3	95B065300	SQUARE	73	
IS-88-Q1-03	95B060830	SQUARE	75	
IS-88-Q1-S1	95B060840	SQUARE	75	

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SENSOR		Category Pa		
CS08K2	958901040	basic 78		
CS07K2	958901000	basic 78		
CS08	958901020	basic	78	
CS07	958901160	basic	78	
CS14K2	958901270	basic	78	
CS13K2	958901250	basic 78		
CS14	958901120	basic 78		
CS13	958901100	basic 7		
CSP40K4	958901380	Capacitve A.C. 80		
CSP41K4	958901390	Capacitve A.C. 80		
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CS10K2	958901080	basic	79	
CS10	958901060	basic	79	
CS16K2	958901330	basic	79	
CS16	958901140	basic	79	
CS09K2	958901230	basic	79	

79	basic	958901230	CS09K2
79	basic	958901180	CS09
79	basic	958901300	CS15K2
79	basic	958901200	CS15
81	Capacitve A.C.	958901400	CSP50K4
81	Capacitve A.C.	958901410	CSP51K4
82	Multi-voltage (timer)	958901150	CS31
82	Multi-voltage (timer)	958901220	CS32
82	Multi-voltage (timer)	958901350	CS31TD5
82	Multi-voltage (timer)	958901360	CS32TD5
82	Multi-voltage (timer)	958901210	CS31TE5
82	Multi-voltage (timer)	958901370	CS32TE5

## NOTES


## NOTES




Rev. 12, 02/2020

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