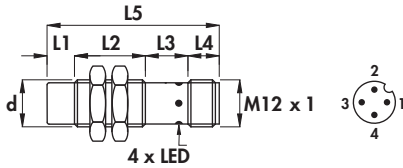


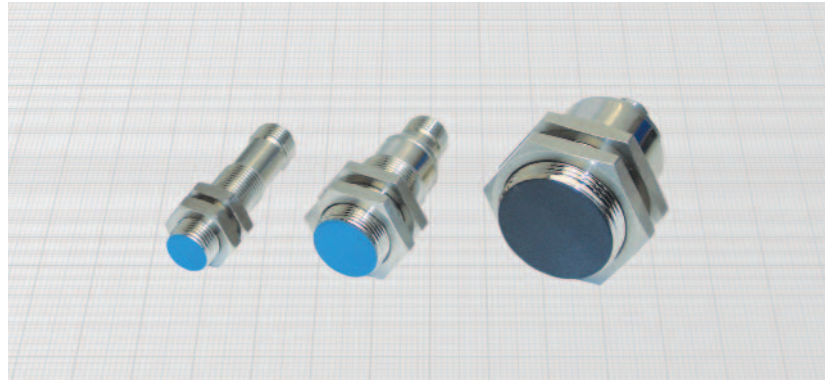
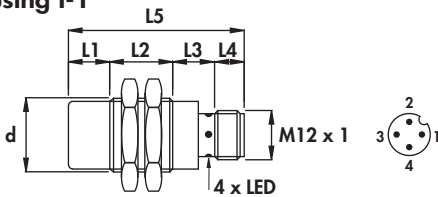


**NAMUR SERIES WITH LED diameters 12 - 18 - 30 mm •  
ATEX certified II 1GD for zone 0;20 •  
Connector output M12 x 1 •**

**Housing I-9**



**Housing I-1**



**General features:**

With this new series of sensors it's possible to drive specific inputs for NAMUR sensors or inputs for 2 wires amplified switches with low current (up to 10 mA). The load can be applied on both terminals (function PNP or NPN). The output is internally triggered and monitored by LED.

Diameter	M12 x 1	M18 x 1	M30 x 1,5
Nut	Size	SW17	SW24
	Thickness mm	4	4
Max tightening torque Nm	15	35	80

**Materials:**

- Housing: nickel plated brass
- Sensing face: plastic

**Technical data:**

- Working voltage: 7,7 ÷ 9 Vdc
- Max ripple: 10%
- Off-state current (I<sub>o</sub>): ≤ 1 mA
- Minimum operational current (I<sub>m</sub>): 2 mA
- Rated operational current (I<sub>p</sub>): 10 mA
- Voltage drop (U<sub>d</sub>) with load 10 mA: < 6,5 V
- Voltage drop (U<sub>d</sub>) with load 8 mA: < 5 V
- Temperature range: -20° ÷ +60°C
- Max thermal drift of sensing distance S<sub>r</sub>: ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis max (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Marking: II 1D Ex iaD 20 T80°C  
II 1G Ex ia IIC T6
- Certified IMQ 08 ATEX 010
- Protected against short-circuit and overload
- Protected against any wrong connection
- Electromagnetic compatibility (EMC) according to EN60947-5-2
- According to: EN60947-5-6/EN60079-0/EN60079-11/EN60079-26
- Shock and vibration resistance according to EN60068-2-27/EN60068-2-6

**Safety parameters:**

- V<sub>i</sub> max: 13,5 V
- I<sub>i</sub> max: 60 mA
- C<sub>i</sub> max: 100 nF
- L<sub>i</sub> max: 100 µH
- P<sub>i</sub> max: 200 mW

**These sensors must be used in conjunction with associated apparatus (See Sect. E)**

**Use in hazardous area according to instruction manuals**

Housing	Flush mounting Non flush mounting	L1	L2	L3	L4	L5	Female connector (see page G - 1)	Body diameter (a)	Max switching frequency (f <sub>f</sub> )	Nominal sensing distance (S <sub>n</sub> ) ± 10%	ORDERING REFERENCES	
		mm	mm	mm	mm	mm						
I-9	•	-	30	10	8	48	8B - 10	M12 x 1	2	2	DC12/4300KSA	DC12/4310KSA
I-9	•	7	23	10	8	48	8B - 10	M12 x 1	1	4	DC12/5300KSA	DC12/5310KSA
I-1	•	-	27	15	8	49	8B - 10	M18 x 1	0,8	5	DC18/4300KSA	DC18/4310KSA
I-1	•	10	17	15	8	49	8B - 10	M18 x 1	0,6	8	DC18/5300KSA	DC18/5310KSA
I-1	•	-	25	17	8	50	8B - 10	M30 x 1,5	0,8	10	DC30/4300KSA	DC30/4310KSA
I-1	•	15	25	17	8	65	8B - 10	M30 x 1,5	0,4	15	DC30/5300KSA	DC30/5310KSA