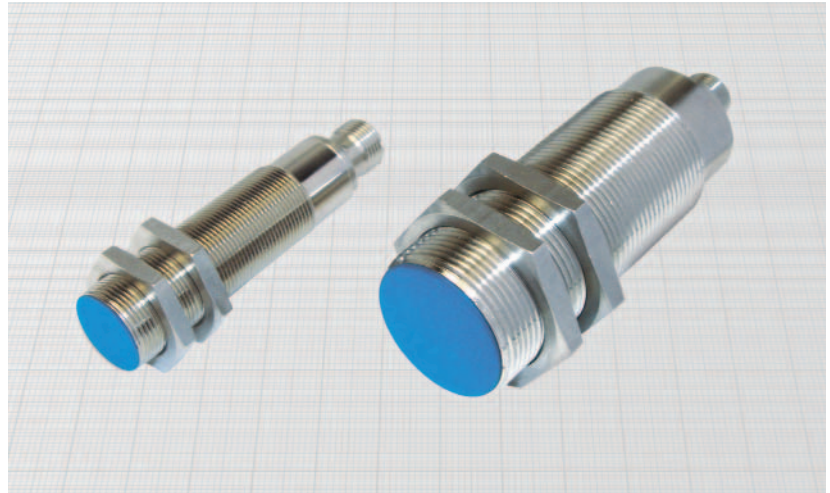
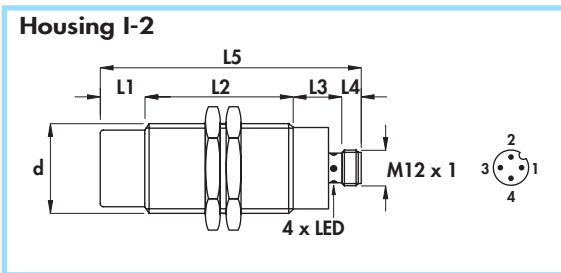
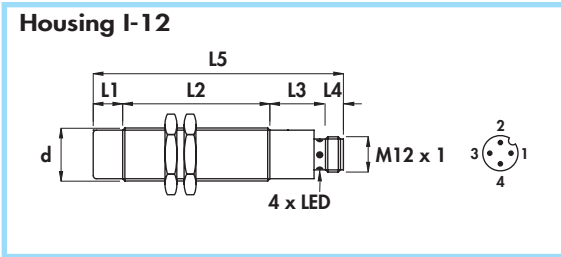


# CYLINDRICAL INDUCTIVE SENSORS IN METAL HOUSING

- 5 output functions
- Amplified in d.c. + a.c. 2 wires
- Connector output M12 x 1



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

### Materials:

- Housing: nickel plated brass
- Sensing face: plastic

### General Features:

When used in a.c. they work as normally open. When used in d.c. they can work as normally open or normally closed simply by reversing the connection wires. The load can be connected indifferently on the positive or on the negative pole. These sensors put together the four functions of traditional 3 wires amplified sensors besides the a.c. working. In many applications they can replace directly electromechanical microswitches.

### Technical data:

- Supply voltage ( $U_B$ ): 10 ÷ 60 Vdc/Vac
- Electrical system frequency: 40 ÷ 60 Hz
- Max ripple: 10%
- Off-state current ( $I_o$ ): ≤ 0,6 mA
- Minimum operational current ( $I_m$ ): 5 mA
- Voltage drop ( $U_d$ ): ≤ 4 V
- Temperature range: -20° ÷ +70°C
- Max thermal drift of sensing distance  $S_s$ : ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Protected against short-circuit and overload
- Suppression of initial false impulse
- Class 2 equipment according to IEC 536
- Shock and vibration according to EN60068-2-27 EN60068-2-6
- Electromagnetic compatibility (EMC) according to EN60947-5-2

Housing	Flush mounting Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Max switching frequency (f)	Rated operational current (I <sub>e</sub> )	Nominal sensing distance (S <sub>n</sub> ) ± 10%	ORDERING REFERENCES			
												PNP		NPN	A.C.
												NO	NC	NO	NC
I-12	•	-	50	19	8	77	6-8B-10	M18 x 1	800	400	5		<b>DX18/435XKS</b> <b>DX18/535XKS</b>		
I-12	•	10	50	19	8	87	6-8B-10	M18 x 1	400	400	8				
I-2	•	-	65	17	8	90	6-8B-10	M30 x 1,5	600	400	10		<b>DX30/435XKS</b> <b>DX30/535XKS</b>		
I-2	•	15	50	17	8	90	6-8B-10	M30 x 1,5	300	400	15				