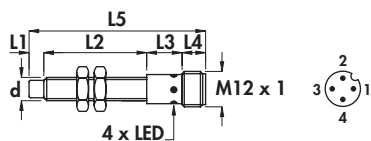


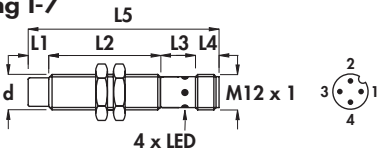
# CYLINDRICAL INDUCTIVE SENSORS IN METAL HOUSING

- Non polarized
- Amplified in d.c. 2 wires
- Connector output

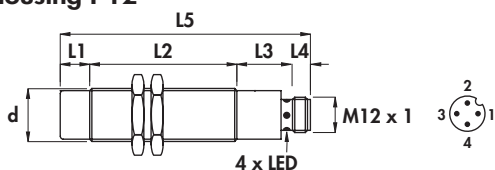
## Housing I-11



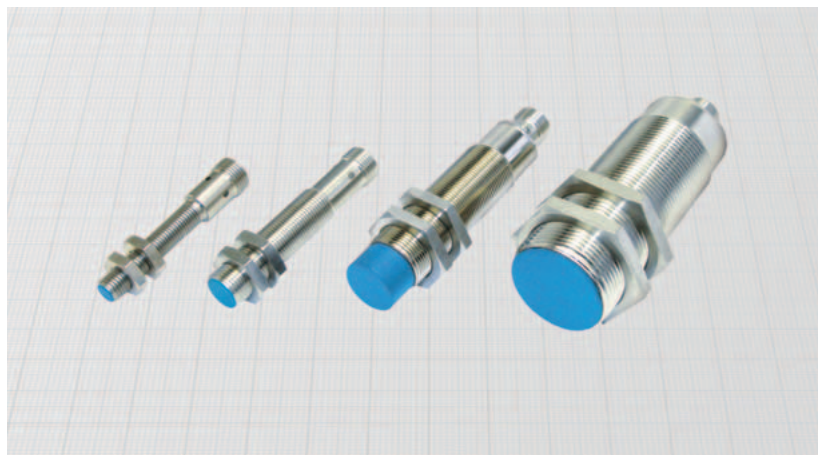
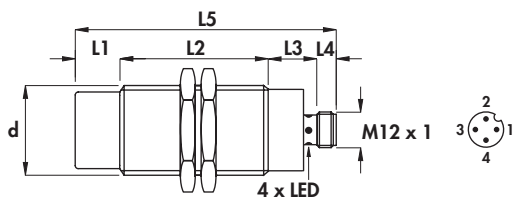
## Housing I-7



## Housing I-12



## Housing I-2



Diameter	M8 x 1	M12 x 1	M18 x 1	M30 x 1,5
Nut	Size SW13	SW17	SW24	SW36
	Thickness mm	4	4	4
Max tightening torque Nm	10	15	35	80

## Materials:

- Housing 8 mm: stainless steel
- Housing 12- 18 - 30 mm: nickel plated brass
- Sensing face: plastic PBT

## General Features:

These sensors are not polarized and the load can be connected on both positive and negative sectors (function PNP or NPN). So they can replace traditional mechanical microswitches in many applications. Utilization of connectors without LED is recommended.

## Technical data:

- Supply voltage ( $U_b$ ): 10 ÷ 55 Vdc
- Max ripple: 10%
- Off-state current ( $I_o$ ): ≤ 1 mA
- Minimum operational current ( $I_m$ ): 5 mA
- Voltage drop ( $U_d$ ) with  $I_e = 10$  mA: ≤ 5 V
- Voltage drop ( $U_d$ ) with  $I_e = 100$  mA: ≤ 6 V
- Temperature range: - 25° ÷ + 70°C
- Max thermal drift of sensing distance  $S_r$ : ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Protected against short-circuit and overload (versions with letter K)
- Suppression of initial false impulse
- Electromagnetic compatibility (EMC) according to EN60947-5-2
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6

Housing	Flush mounting Non flush mounting	L1	L2	L3	L4	L5	Female connector	Body diameter (d)	Nominal sensing distance ( $S_r$ ) ± 10%	Max switching frequency (f) in d.c.	Rated operational current ( $I_e$ )	ORDERING REFERENCES	
												NO (connectors 3 or 4 wires)	NC (connectors 4 wires)
I-11	•	-	40	12	8	60	6-8B-10	M8 x 1	1,5	1200	100	DCM8/4300S DCM8/5300S	DCM8/4310S DCM8/5310S
I-11	•	5	35	12	8	60	6-8B-10	M8 x 1	2,5	1000	100		
I-7	•	-	43	15	8	66	6-8B-10	M12 x 1	2	1200	200	DCM12/4300KS DCM12/5300KS	DCM12/4310KS DCM12/5310KS
I-7	•	7	36	15	8	66	6-8B-10	M12 x 1	4	1000	200		
I-12	•	-	50	19	8	77	6-8B-10	M18 x 1	5	1100	250	DCM18/4300KS DCM18/5300KS	DCM18/4310KS DCM18/5310KS
I-12	•	10	50	19	8	87	6-8B-10	M18 x 1	8	700	250		
I-2	•	-	65	17	8	90	6-8B-10	M30 x 1,5	10	800	250	DCM30/4300KS DCM30/5300KS	DCM30/4310KS DCM30/5310KS
I-2	•	15	50	17	8	90	6-8B-10	M30 x 1,5	15	400	250		