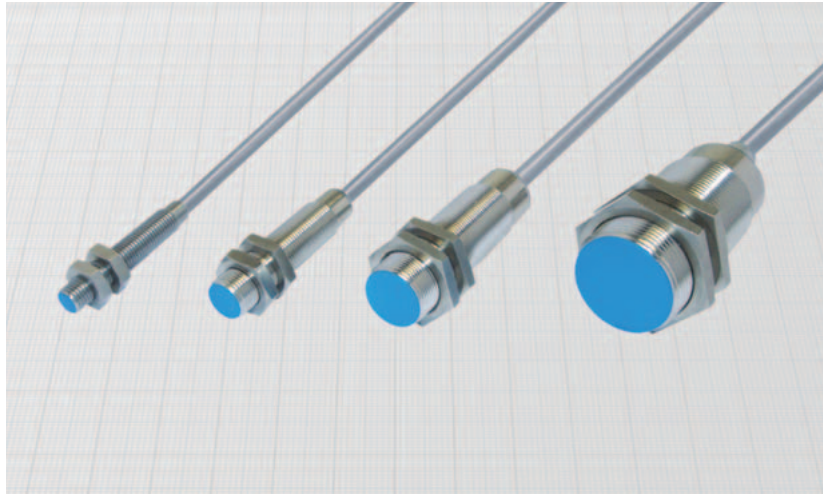
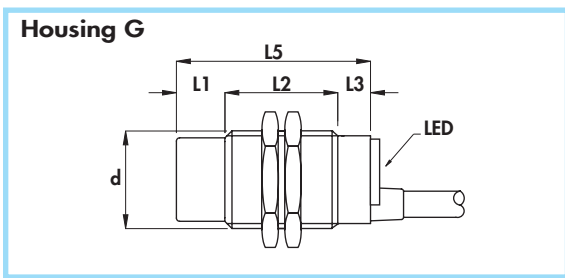
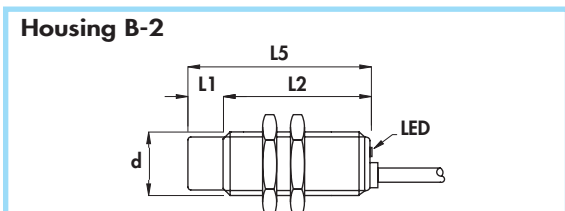
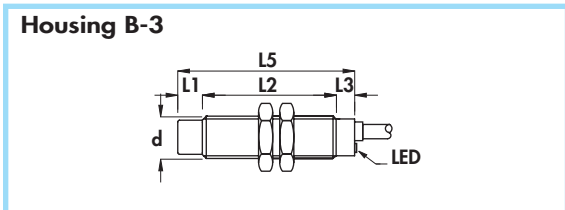
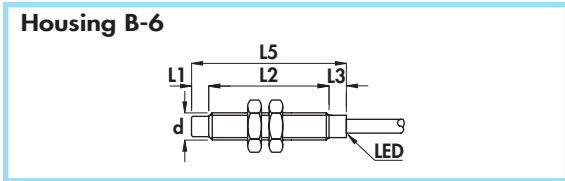


Non polarized •
 Amplified in d.c. 2 wires •
 Cable output •



| | | | | | |
|--------------------------|--------------|--------|---------|---------|-----------|
| 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 | 5 |
| Max tightening torque Nm | | 10 | 15 | 35 | 80 |

Materials:

- Cable: 2 m PVC CEI 20 - 22 II; 90°C; 300 V; O.R.
- 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 lead (function PNP or NPN). So they can replace traditional mechanical microswitches in many applications.

Technical data:

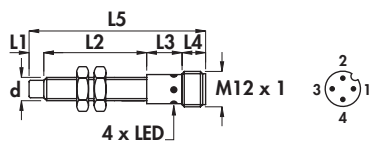
- Supply voltage (U_B): 10 ÷ 55 Vdc
- Max ripple: 10%
- Off-state current (I_o): ≤ 1 mA
- Minimum operational current (I_m): 5 mA
- Voltage drop (U_d) with $I_e = 10$ mA: ≤ 5 V
- Voltage drop (U_d) with $I_e = 100$ mA: ≤ 6 V
- Temperature range: -25° ÷ +70°C
- Max thermal drift of sensing distance S_s : ± 10%
- Repeat accuracy (R): 2%
- Switching hysteresis (H): 10%
- Degree of protection: IP67
- Switch status indicator: yellow LED
- Cable conductor cross section: 0,34 mm² on 8 and 12 mm
0,50 mm² on 18 mm
0,75 mm² on 30 mm
- 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 | Cable diameter | Body diameter (d) | Nominal sensing distance (S_n) ± 10% | Max switching frequency (f) | Rated operational current (I_e) | ORDERING REFERENCES | |
|---------|--------------------------------------|----|----|----|----|----|----------------|-------------------|--|-----------------------------|-------------------------------------|---------------------|--------------|
| | | mm | mm | mm | mm | mm | | | | | | mm | mm |
| B-6 | • | - | 40 | 5 | - | 45 | 4 | M8 x 1 | 1,5 | 1200 | 100 | DCM8/4600S | DCM8/4610S |
| B-6 | • | 5 | 35 | 5 | - | 45 | 4 | M8 x 1 | 2,5 | 1000 | 100 | DCM8/5600S | DCM8/5610S |
| B-3 | • | - | 43 | 7 | - | 50 | 4 | M12 x 1 | 2 | 1200 | 200 | DCM12/4600KS | DCM12/4610KS |
| B-3 | • | 7 | 36 | 7 | - | 50 | 4 | M12 x 1 | 4 | 1000 | 200 | DCM12/5600KS | DCM12/5610KS |
| B-2 | • | - | 50 | - | - | 50 | 5 | M18 x 1 | 5 | 1100 | 250 | DCM18/4A00KS | DCM18/4A10KS |
| B-2 | • | 10 | 40 | - | - | 50 | 5 | M18 x 1 | 8 | 700 | 250 | DCM18/5A00KS | DCM18/5A10KS |
| G | • | - | 50 | 10 | - | 60 | 6 | M30 x 1,5 | 10 | 800 | 250 | DCM30/4600KS | DCM30/4610KS |
| G | • | 15 | 35 | 10 | - | 60 | 6 | M30 x 1,5 | 15 | 400 | 250 | DCM30/5600KS | DCM30/5610KS |

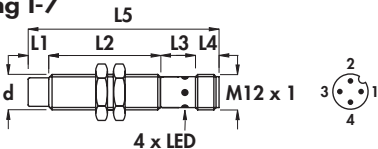
CYLINDRICAL INDUCTIVE SENSORS IN METAL HOUSING

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

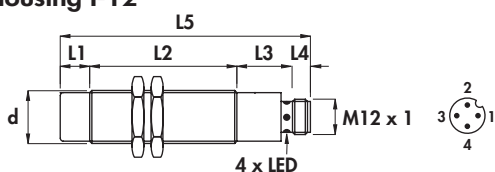
Housing I-11



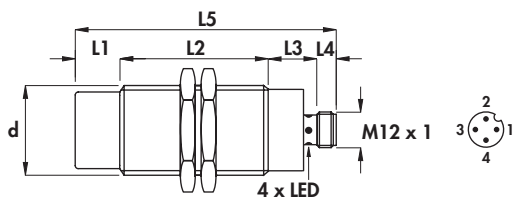
Housing I-7



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 | | |