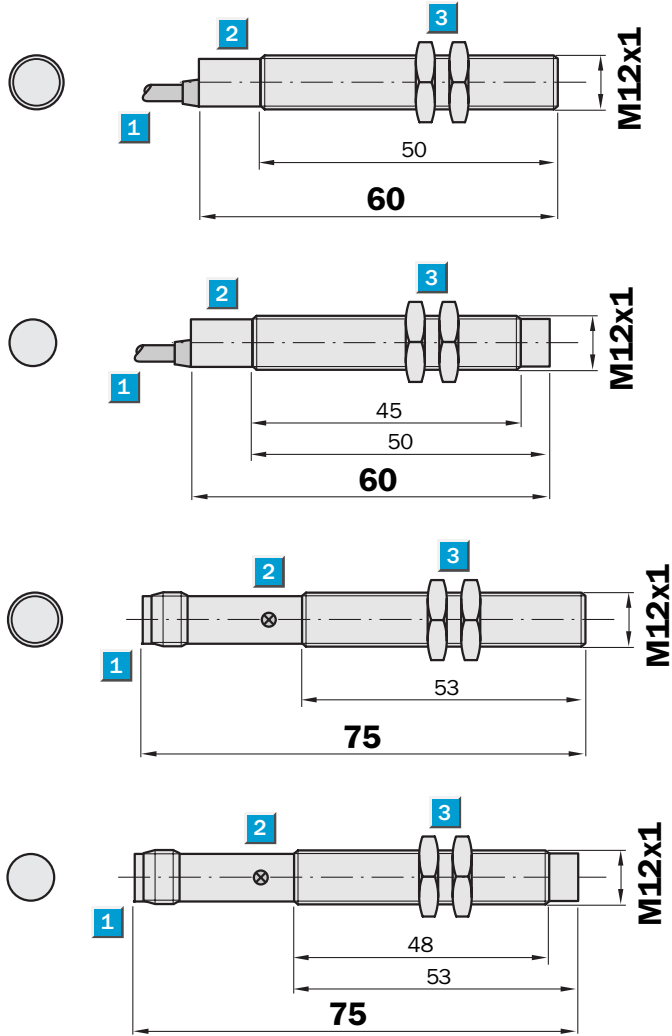


Sensing range
2 / 4 mm

Inductive sensor

- Free configurable output functions in one sensor PNP/NO, PNP/NC NPN/NO, NPN/NC
- Short-circuit protection
- Robust brass housing, nickel-plated with fine thread M12 x 1 mm
- Enclosure rating IP 67
- LED status indicator (NO function)

Dimensional drawing

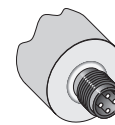
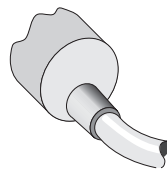


- 1 Connection
- 2 Display LED
- 3 Fastening nuts (2 x); width across 17, metal

Connection type

IM12-02BCP-ZW1
IM12-04NCP-ZW1

IM12-02BCP-ZC1
IM12-04NCP-ZC1

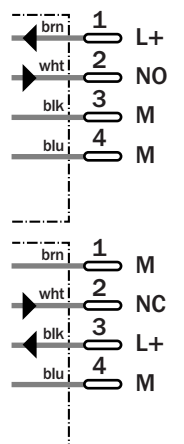
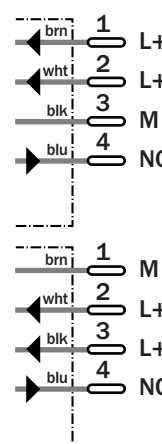
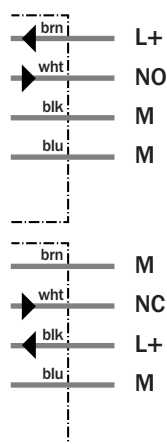
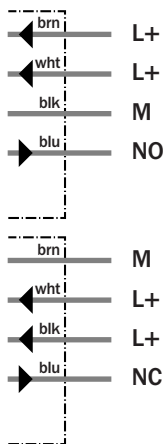


4 x 0.22 mm²
PNP version

NPN version

M12, 4-pin
PNP version

NPN version



See chapter Accessories
Connector, M12, 4-pin
Mounting systems

Technical data		IM12-	02BCP -ZW1	02BCP -ZC1	04NCP -ZW1	04NCP -ZC1						
Sensing range S_n	4 mm											
	2 mm											
Electrical configuration	DC 4-wire											
Supply voltage V_s	DC 10 ... 30 V											
Residual ripple V_{pp}	$\leq 10\%$ ¹⁾											
Voltage drop V_d	$\leq 1.2\text{ V}$ ²⁾											
Power consumption	$\leq 30\text{ mA}$ ³⁾											
Continuous current I_a	$\leq 100\text{ mA}$											
Time delay before availability t_v	$\leq 250\text{ ms}$											
Hysteresis H, of s_r	2 ... 10 %											
Repeatability R	$\leq 5\%$ (U_b and T_a constant) ⁴⁾											
Temperature drift, of s_r	$\pm 10\%$											
EMC	According to EN 60947-5-2											
Switching output	PNP/NPN config.											
Output function	Configurable											
Installation	Non-flush											
	Flush											
Connection type	Connector, M12, 4-pin											
	Cable, PVC, 2 m											
Enclosure rating	IP 67 ⁵⁾											
Max. switching frequency	1,000 Hz											
Dimensions	M12 x 1 ⁶⁾											
Short circuit protection	✓											
Reverse polarity protection	✓											
Power-up pulse suppression	✓											
Shock/vibration stress	30 g, 11 ms/10 ... 55 Hz, 1 mm											
Ambient operating temperature T_a	-25 °C ... +70 °C											
Housing material	Brass nickel-plated, plastic											
Tightening torque	10 Nm											

¹⁾ of U_b
²⁾ at I_a max
³⁾ without load
⁴⁾ of s_r
⁵⁾ according to EN 60529
⁶⁾ thread diameter x pitch (mm)

Order information

Type	Order no.
IM12-02BCP-ZW1	7 902 927
IM12-02BCP-ZC1	7 902 928
IM12-04NCP-ZW1	7 902 929
IM12-04NCP-ZC1	7 902 930