

CROPLANDS PART NUMBER: UP-402

PROXIMITY SENSOR BA & HV SPEED

PROXIMITY SPEED SENSOR

Part Number: UP-402



Pin A = Pulse – Black
Pin B = 12+ve – Brown
Pin C = 12-ve – Blue

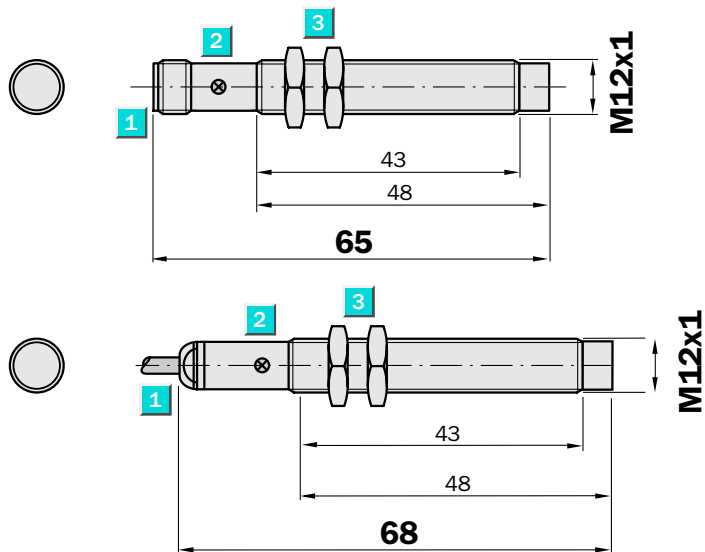


Sensing range
4 mm

Inductive sensor

- Short-circuit protection (pulsed)
- Robust brass housing, nickel-plated with fine thread M12 x 1 mm
- Enclosure rating IP 67
- Installation non-flush

Dimensional drawing

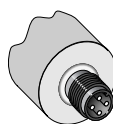


- 1 Connection
- 2 Display LED
- 3 Fastening nuts (2 x); width across 17, metal

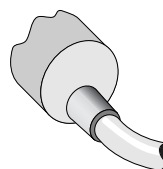
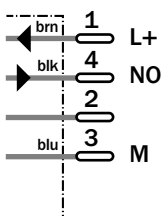


Connection type

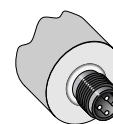
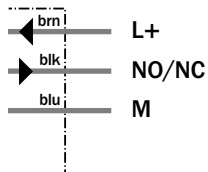
IME12-04NNSZC0S	IME12-04NNOZW2S	IME12-04NNOZC0S
IME12-04NPSZC0S	IME12-04NNSZW2S	IME12-04NPOZC0S
	IME12-04NPOZW2S	
	IME12-04NPSZW2S	



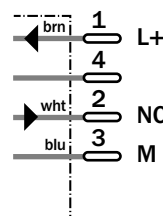
M12, 4-pin



3 x 0.25 mm²



M12, 4-pin



Accessories

Connector, M12, 4-pin
Mounting systems

Technical specifications		IME12-	04NN OZC0S	04NNO ZW2S	04NNS ZC0S	04NNS ZW2S	04NPO ZC0S	04NPO ZW2S	04NPS ZC0S	04NPS ZW2S		
Sensing range S_n	4 mm											
Electrical configuration	DC3-wire											
Supply voltage V_s	DC 10 ... 30 V											
Ripple U_{pp}	$\leq 10\%$											
Voltage drop U_d	$\leq 2\text{ V}^{1)}$											
Power consumption	$\leq 10\text{ mA}^{2)}$											
Continuous current I_a	$\leq 200\text{ mA}$											
Time delay before availability t_v	$\leq 100\text{ ms}$											
Hysteresis H, of s_r	5 ... 15 %											
Repeatability R	$\leq 2\%$ (U_b and T_a constant) ³⁾											
Temperature drift, of s_r	$\pm 10\%$											
EMC	According to EN 60947-5-2											
Switching output	NPN											
	PNP											
Output function	Normally closed											
	Normally open											
Installation	Non-flush											
Connection type	Connector, M12, 4-pin											
	Cable, PVC, 2 m											
Enclosure rating	IP 67 ⁴⁾											
Max. switching frequency	500 Hz											
Dimensions	M12 x 1 ⁵⁾											
Short-circuit protection	✓ ⁶⁾											
Reverse polarity protection	✓											
Power-up pulse suppression	✓											
Shock/vibration stress	30 g, 11 ms/10 ... 55 Hz, 1 mm											
Ambient temperature T_a	-20 °C ... +65 °C											
Housing material	Brass nickel-plated, plastic											
Tightening torque	13 Nm											

¹⁾ At I_a max
²⁾ Without load

³⁾ Of s_r
⁴⁾ According to EN 60529

⁵⁾ Thread diameter x pitch (mm)
⁶⁾ (Pulsed)

Reduction factor R_M

The following are reference values, which may vary from type to type:

St37 (Fe)	1
Stainless steel (V2A)	Approx. 0.8
Aluminum (solid)	Approx. 0.45
Copper (Cu)	Approx. 0.4

Ordering information

Type	Part Number
IME12-04NNOZC0S	1040760
IME12-04NNOZW2S	1040762
IME12-04NNSZC0S	1040756
IME12-04NNSZW2S	1040757
IME12-04NPOZC0S	1040752
IME12-04NPOZW2S	1040754
IME12-04NPSZC0S	1040748
IME12-04NPSZW2S	1040750