

Technical specifications		IME30-	20NN OZC0S	20NNO ZW2S	20NNS ZC0S	20NNS ZW2S	20NPO ZC0S	20NPO ZW2S	20NPS ZC0S	20NPS ZW2S		
Sensing range S_n	20 mm											
Electrical configuration	DC 3-wire											
Supply voltage V_s	DC 10 ... 30 V											
Nominal voltage V_n	DC											
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	$\leq 125 \text{ ms}$											
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	100 Hz											
Dimensions	M30 x 1.5 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	100 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
IME30-20NNOZC0S	1 041 058
IME30-20NNOZW2S	1 041 060
IME30-20NNSZC0S	1 041 054
IME30-20NNSZW2S	1 041 056
IME30-20NPOZC0S	1 041 050
IME30-20NPOZW2S	1 041 052
IME30-20NPSZC0S	1 041 046
IME30-20NPSZW2S	1 041 048