

Standard cylindrical proximity switch-M12

Embeddable-2mm, un-embeddable-4mm

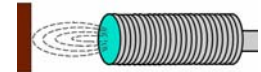


Standard series

3-Wires DC

Embeddable-2mm

Un-embeddable-4mm



Technical feature:

Rated operating distance s_n		2 mm	2 mm	4 mm	4 mm
Installation		embeddable	embeddable	not embeddable	not embeddable
PNP	Make function	IGE2-12TM-PO	IGE2-12TM-PO-S1	IGN4-12TM-PO	IGN4-12TM-PO-S1
NPN	Make function	IGE2-12TM-NO	IGE2-12TM-NO-S1	IGN4-12TM-NO	IGN4-12TM-PO-S1
Reduction factor r_{Al}		0.3	0.3	0.5	0.5
Reduction factor r_{Cu}		0.3	0.3	0.4	0.4
Reduction factor r_{V2A}		0.7	0.7	0.8	0.8
Assured operating distance s_a		0 ... 1.6 mm	0 ... 1.6 mm	0 ... 3.2 mm	0 ... 3.2 mm
Operating voltage U_B		10 ... 30 V	10 ... 30 V	10 ... 30 V	10 ... 30 V
Operating current I_L		0 ... 200 mA	0 ... 200 mA	0 ... 200 mA	0 ... 200 mA
Switching frequency f		0 ... 1200 Hz	0 ... 1200 Hz	0 ... 1000 Hz	0 ... 1000 Hz
No-load supply current I_0		≤ 18 mA	≤ 18 mA	≤ 18 mA	≤ 18 mA
Off-state current I_r		0 ... 0.5 mA typ.	0 ... 0.5 mA typ.	0 ... 0.5 mA typ.	0 ... 0.5 mA typ.
Voltage drop U_d		≤ 3 V	≤ 3 V	≤ 3 V	≤ 3 V
Reverse polarity protection		Protected against reverse polarity	Protected against reverse polarity	Protected against reverse polarity	Protected against reverse polarity
Short circuit protection		pulsing	pulsing	pulsing	pulsing
Indication of the switching state		all direction LED, yellow	Multihole-LED, yellow	all direction LED, yellow	Multihole-LED, yellow
Standards		EN 60947-5-2	EN 60947-5-2	EN 60947-5-2	EN 60947-5-2
Ambient temperature		-25 ... 70 °C	-25 ... 70 °C	-25 ... 70 °C	-25 ... 70 °C
Connection type		2 m, PVC cable	S1-connector	2 m, PVC cable	S1-connector
Core cross-section		0.14 mm ²	-	0.14 mm ²	-
Housing material		brass, nickel-plated	brass, nickel-plated	brass, nickel-plated	brass, nickel-plated
Sensing face		PBT	PBT	PBT	PBT
Protection degree		IP67	IP67	IP67	IP67

Connection:

