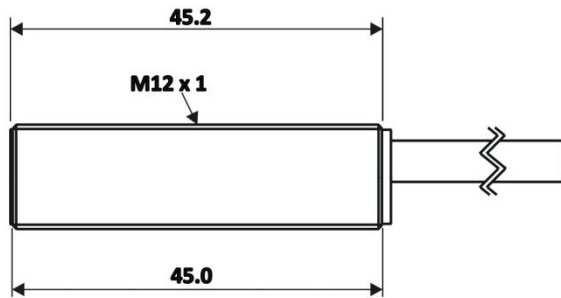
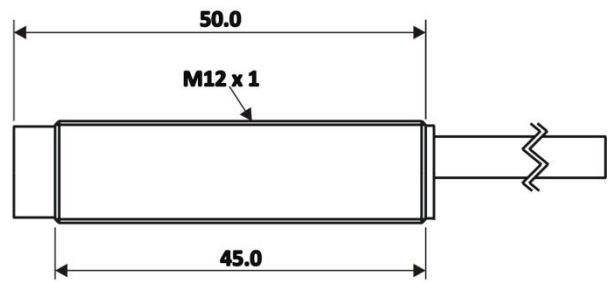


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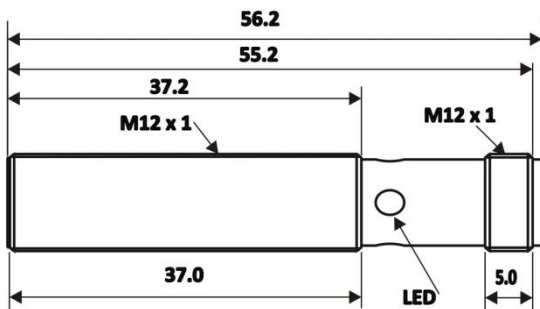
M12x1 Flush - Cable Type



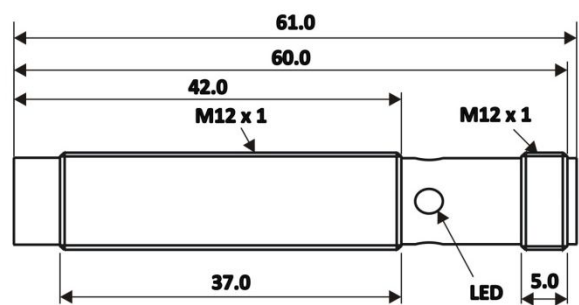
M12x1 Non Flush - Cable Type



M12x1 Flush - Connector Type



M12x1 Non Flush - Connector Type



All dimensions are in mm.



Specifications are subject to change without notice.

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**Table-1**

**M12x1 DC 3 WIRE**

O/P Type	O/P Logic	Mounting	Sensing Distance(Sn)	Termination Type	Katlax Article No.
PNP	NO	FLUSH	2 mm	CABLE	IBF02-12B4-POW02
PNP	NO	NON FLUSH	4 mm	CABLE	IBN04-12B4-POW02
PNP	NC	FLUSH	2 mm	CABLE	IBF02-12B4-PCW02
PNP	NC	NON FLUSH	4 mm	CABLE	IBN04-12B4-PCW02
NPN	NO	FLUSH	2 mm	CABLE	IBF02-12B4-NOW02
NPN	NO	NON FLUSH	4 mm	CABLE	IBN04-12B4-NOW02
NPN	NC	FLUSH	2 mm	CABLE	IBF02-12B4-NCW02
NPN	NC	NON FLUSH	4 mm	CABLE	IBN04-12B4-NCW02
PNP	NO	FLUSH	2 mm	CONNECTOR	IBF02-12B5-POC12
PNP	NO	NON FLUSH	4 mm	CONNECTOR	IBN04-12B5-POC12
PNP	NC	FLUSH	2 mm	CONNECTOR	IBF02-12B5-PCC12
PNP	NC	NON FLUSH	4 mm	CONNECTOR	IBN04-12B5-PCC12
NPN	NO	FLUSH	2 mm	CONNECTOR	IBF02-12B5-NOC12
NPN	NO	NON FLUSH	4 mm	CONNECTOR	IBN04-12B5-NOC12
NPN	NC	FLUSH	2 mm	CONNECTOR	IBF02-12B5-NCC12
NPN	NC	NON FLUSH	4 mm	CONNECTOR	IBN04-12B5-NCC12



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**Table-2**

**TECHNICAL SPECIFICATIONS**

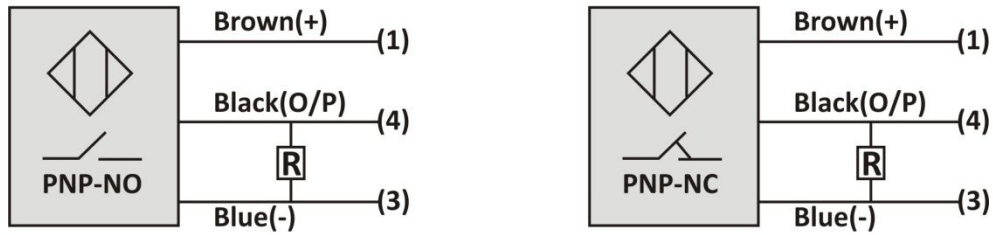
<b>Operating Voltage</b>	10-30 VDC	
<b>Sensing Distance (Sn)</b>	2.0 mm - Flush	
	4.0 mm - Non flush	
<b>Hysteresis</b>	3-15% of Sn	
<b>Standard target</b>	(12x12x1)mm Fe/St-37	
<b>Correction factor</b>	Mild Steel	1.00
	Stainless steel	0.80
	Brass	0.50
	Aluminum	0.45
	Copper	0.40
<b>Ripple</b>	< 15%	
<b>Voltage Drop</b>	< 1.5V DC	
<b>No Load Current</b>	< 15 mA	
<b>Max. Load Current</b>	200 mA	
<b>Switching Frequency</b>	1.5 kHz - Flush	
	1.0 kHz - Non Flush	
<b>Reverse Polarity Protection</b>	YES	
<b>Short Circuit Protection</b>	YES (Latch Type)	
<b>Housing Material</b>	Brass(Ni Plated)	
<b>Sensing Face Material</b>	P.B.T.	
<b>Termination</b>	Cable (3 x 0.25 sqmm.) , 2 mtr	
	M12 Male Connector	
<b>Temperature Range</b>	-25°C....75°C	
<b>Environmental Protection</b>	IP67	



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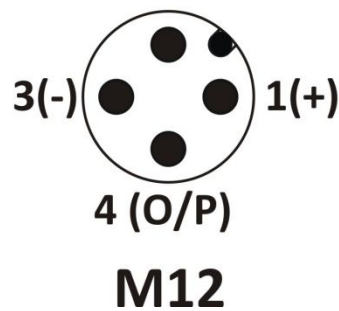
## PNP Cable type



## NPN Cable type



## Connector type



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