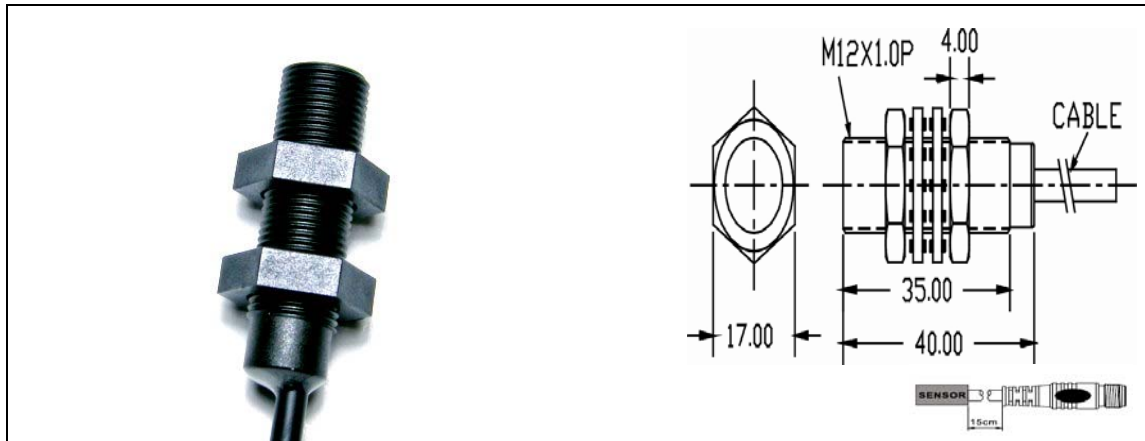


M12 Series

- 👍 **No-touch operation · high response frequency · wide application range.**
- 👍 **Reverse polarity and Swapped signal wires protection.**
- 👍 **High-intensity LED for sending indication.**
- 👍 **Good environmental resistance · all products are CE approved**
- 👍 **High degree of protection up to IP68**



Switching Output	Model Number	Sensing Distance	Response Frequency	Operating voltage	Connecting Method	
DC 3-Wire NPN NO	ABS-12N02E1	2mm	1000Hz	DC 10~30V	Pre-wired	
	ABS-12N04E1	4mm	600Hz		2M Cable	
	ABS-12N02E1-U	2mm	1000Hz		Cable with	
	ABS-12N04E1-U	4mm	600Hz		M12 plug	
DC 3-Wire NPN NC	ABS-12N02E2	2mm	1000Hz		Pre-wired	2M Cable
	ABS-12N04E2	4mm	600Hz			
DC 3-Wire PNP NO	ABS-12P02E1	2mm	1000Hz		Cable with	M12 plug
	ABS-12P04E1	4mm	600Hz			
	ABS-12P02E1-U	2mm	1000Hz			
	ABS-12P04E1-U	4mm	600Hz			
DC 3-Wire PNP NC	ABS-12P02E2	2mm	1000Hz	Pre-wired	2M Cable	
	ABS-12P04E2	4mm	600Hz			

Item	Specifications
Standard sensing object	Iron, 12×12×1 mm
Load current	0 ~ 200mA
Operation indicator	Red LED
Circuits protection	Reversed polarity & Short circuit protection

Enclosure protection	IEC IP68
Ambient temperature & humidity range	Operating : -25 ~ 70°C / RH 35 ~95% (with no icing or condensation)
Insulation resistance	50M Ω minimum. (at 500VDC) between current carry parts and case
Voltage with stand ability	1000VAC 50/60Hz for 1 minute between current carry parts and case
Vibration resistance	10 ~ 55Hz : 15mm double amplitude for 2 hours each in X,Y and Z directions
Shock resistance	500m/s ² (50G approx) 10 times each in X,Y and Z directions
Housing material	ABS