

■ **Inductive cylindrical type proximity sensor**

Features

- Reverse power polarity protection.
- Surge protection function.
- Over current protection function.
- Long life cycle and high reliability.
- Able to check the status of operation by Red LED Indicator.
- No side sensing.
- Wide range of applications, for replacement of Micro switch, Limit switch.
- Water proof structure by IP 67.

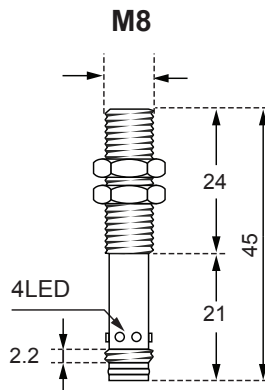
Dimension	Model
M8	BIR8-PN2FL-CM83
	BIR8-PC2FL-CM83
	BIR8-NN2FL-CM83
	BIR8-NC2FL-CM83



■ **Specifications (DC 3Pin Connector type)**

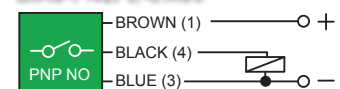
Model	BIR8-PN2FL-CM83	BIR8-PC2FL-CM83	BIR8-NN2FL-CM83	BIR8-NC2FL-CM83
Function	PNP Make (NO)	PNP Break (NC)	NPN Make (NO)	NPN Break (NC)
Detecting Distance	2mm			
Switching Hysteresis	Max. 15% of Sr			
Standard Detecting Target	8 x 8 x 1mm (Iron)			
Setting Distance	2mm ± 10%			
Power Supply (Operating Voltage)	10-30VDC			
Current Consumption	<10mA			
Response Frequency	2 kHz			
Residual Voltage	Max. 1.5V			
Temperature Drift	±10% Max. of detecting distance at +20°C within temperature range of -25 to +70°C			
Control Output	150mA			
Connection Type	3Pin PICO Style Connector			
Housing Type	Cylindrical Threaded(1mm), 8mm dia, length 45mm			
Housing Material	Cylinder-Brass Nickel Plated, Sensing face-POM			
Vibration & Shock	1mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions for 2 hours		500m/s ² (50G) in X, Y, Z direction for 3 times	
Indicator	Operating indicator (RED LED)			
Ambient Temperature	-25 to +70°C (non-freezing condition)			
Storage Temperature	-30 to +80°C (non-freezing condition)			
Ambient Humidity	35 to 95% RH			
Protection Circuit	Surge protection circuit, Overload & short circuit protection			
Protection	IP67			
Weight	Approx. 40g			
Approval	CE			

◆ **Dimension Drawings**

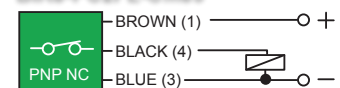


◆ **Connection Diagrams**

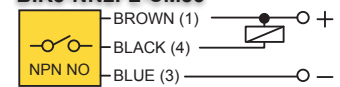
BIR8-PN2FL-CM83



BIR8-PC2FL-CM83



BIR8-NN2FL-CM83



BIR8-NC2FL-CM83

