







■ **Capacitive 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.
- Wide range of applications, for replacement of Micro switch, Limit switch.

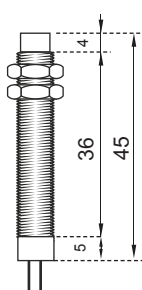
Model		Model
M8		BCR8-PN2
		BCR8-NN2
M12		BCR12-PN6
		BCR12-NN6

■ **Specifications (DC 3wire type)**

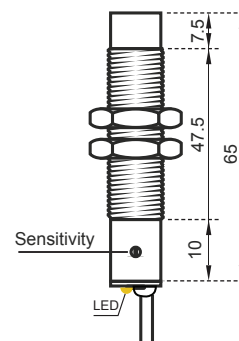
Model	BCR8-PN2	BCR8-NN2	BCR12-PN6	BCR12-NN6
Function	PNP Make (NO) 	NPN Make (NO) 	PNP Make (NO) 	NPN Make (NO) 
Detecting Distance	1~2mm		1~6mm Adjustable	
Switching Hysteresis	Max. 15% of Sr			
Standard Detecting Target	8 x 8 x 1mm (Iron)		12 x 12 x 1mm (Iron)	
Setting Distance	1~2mm ± 10%		1~6mm ± 10%	
Power Supply (Operating Voltage)	10-30VDC			
Current Consumption	<10mA			
Response Frequency	100 Hz			
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	100mA		150mA	
Connection Type	Cable 2mtr.			
Housing Type	Cylindrical Threaded(1mm), 8mm dia, length 45mm		Cylindrical Threaded(1mm), 12mm dia, length 65mm	
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	IP65			
Weight	Approx. 70g		Approx. 95g	

◆ **Dimension Drawings**

M8X1



M12X1



◆ **Connection Diagrams**

**BCR8-PN2
BCR12-PN6**



**BCR8-NN2
BCR12-NN6**

