BTH™ Proximity Sensor

DC 3wire M8 M12 Capacitive Proximity Sensor

▣ Inductive cylindrical type proximity sensor

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

Features

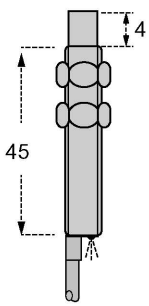
- Reverse power polarity protection.
- Surge protection function.
- Over current protection function.
- Long life cycle and high reliability.
- Able to check the status of operation by Red LED Indicator.
- Wide range of applications, for replacement of Micro switch, Limit switch.
- Water proof structure by IP 67.

▣ Specifications (DC 3wire type)

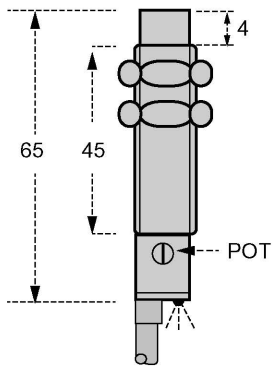
Model	BCR8-PN2	BCR8-NN2	BCR12-PN6	BCR12-NN6
Function	PNP Make (NO)	NPN Make (NO)	PNP Make (NO)	NPN Make (NO)
Detecting Distance	1~2mm		1~6mm Adjustable	
Switching Hysteresis	Max. 15% of Sr			
Standard Detecting Target	8 x 8 x 1mm (Iron)		12 x 12 x 1mm (Iron)	
Setting Distance	1~2mm ± 10%		1~6mm ± 10%	
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 +20ºC within temperature range of –25 to +70ºC			
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	Cylindre-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 +70ºC (non–freezing condition)			
Storage Temperature	–30 to +80ºC (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	
Approval	CE			

◆ Dimension Drawings

M8X1

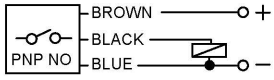


M12X1



◆ Connection Diagrams

BCR8-PN2
BCR12-PN6



BCR8-NN2
BCR12-NN6