



Magnetic Proximity Sensors (Reed)

BP3 Series Metal Reed Sensor



General Description

The BP3 series metal reed sensor is a robust, solid-state device engineered for demanding applications. Housed in a durable brass, stainless steel or aluminum enclosure, it is built to perform reliably in harsh environments and offers an extended operational lifetime, making it ideal for challenging use cases such as outdoor equipment.

This sensor is available in both cylindrical and rectangular form factors. Additionally, BST can provide models with explosion-proof certification upon customer request.

Key Features

- No standby power requirement
- Multiple magnetic field sensitivity range
- High stability, high reliability, high consistency
- Custom solution available

Application

- Outdoor equipment position sensing
- Security door
- Off road vehicle

Environmental Specifications

Vibration	980(100G) m/s ²	(6ms)
Shock	196(20G) m/s ²	(10-2000Hz)
Operating Temperature	-10°C to 150°C	
Storage Temperature	-10°C to 150°C	
Ingress Protection	IP67 or IP69	



Mechanical Specifications

Housing Material	Stainless steel/Brass/Aluminum	
Housing Form	Cylindrical/ Rectangular/Flange Mount	
Housing Color	Black/Silver/Yellow	
Cable Material	PVC	
Operate Distance	5mm-17.8mm(optional)	

PN	Contact Form	Rated Power(max)	Switch Voltage(max)	Switch Current(max)	Breakdown Voltage(min)
BP3-23L-A	Normally Open	100W	200V	1A	400V
BP3-23L-B	Normally Closed	10W	200V	0.5A	250V
BP3-23L-C	Changeover	10W	200V	0.5A	250V

Reference Drawing (Different sizes are available, please contact BST for more sensor information)

