

Photoelectric Sensor

User Manual

BW/BR Series

www.yotochn.net

BW-M18 Cylinder M18



BW-W50 50X50X18



Ordering Code

BW/BR	—	□	□	□	□	—	Detect Distance: 5: 0-5CM 10: 0-10CM 30: 0-30CM
							Detect Mode: A: Through-beam
							Output Mode: N: NPN NO P: PNP NO NC: NPN NC PC: PNP NC
							Structure: M18: Cylinder 18mm W50: Flat 50x50x18mm
							BW: Adjustable BR: Fixed Photoelectric Sensor

Eg: BW-M18NA10, means it is a cylinder M18 adjustable photoelectric sensor with NPN NO output and detect 10CM distance.

Technical Data

Light source	Infrared LED (detect mode)
Standard object	White Non-reflective paper
Supply voltage	10 ~ 30V DC, 90 ~ 250V AC, 12 ~ 240V AC/ DC
Current consumption	<30mA
Load current	200mA max.
Residual voltage	1V max. (This is only applied to NPN NO & PNP NO)
Indicator	Red LED
Protection Degree	IP65 IEC
Ambient temperature	(-25°C) ~ 70°C (with no fog or freeze.)
Storage temperature	30°C ~ 80°C
Ambient humidity	35 ~ 85%RH
Ambient light	Incandescence lamp: ≤300Lux, Sun light: ≤100Lux
Cable length	Length 2M (Standard length)
Housing material	ABS plastic

Operation Principle

Type	Operation principle	Drawing
Trough beam type	The trough beam type photoelectric sensor is usually the standard U shape structure, the transmitter and the receiver are located separately at the two sides of U trough, and forms an optical axis. When the detected object passes through the U-groove, and blocks the optical axis, the photoelectric sensor will produce detection signals. The trough beam type photoelectric sensor is relatively safe and reliable for the measuring of high speed change, transparent and translucent object.	

Wire Connection

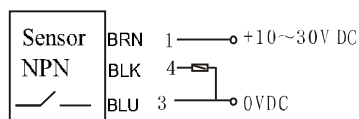


Figure 1: NPN Three-Wire NO/ NC



Figure 2: PNP Three-Wire NO/ NC