

Metal cylindrical shape photoelectric sensors PR18 series



Features

- ◆ Diffuse reflection working principle;
- ◆ Excellent anti-interference performance
- ◆ High detection accuracy



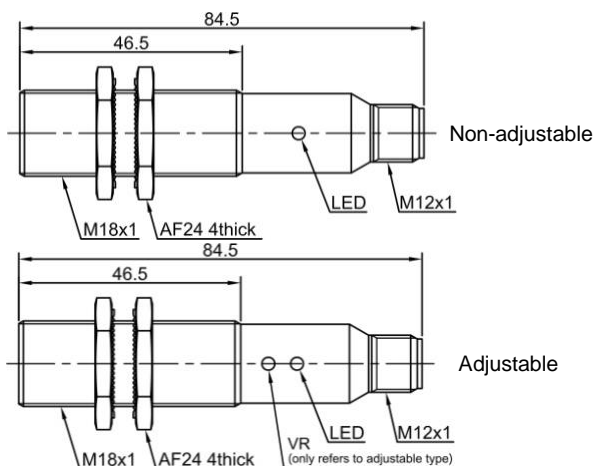
Part number

AC 2 wires NO PR18-BC10ATO-E2 PR18-BC40ATO-E2 AC 2 wires NC PR18-BC10ATC-E2 PR18-BC40ATC-E2

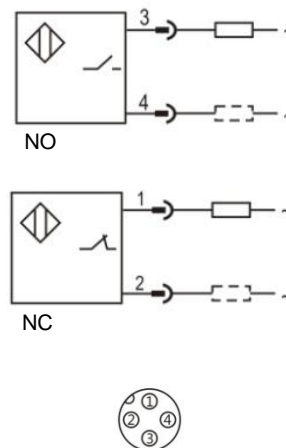
Technical specifications

Detection type	Diffuse reflection	Consumption current	≤3mA
Rated distance [Sn]	10cm (non-adjustable) 40cm (adjustable)	Circuit protection
Standard target	White card reflection rate 90%	Response time	< 50ms
Light source	Infrared LED (880nm)	Output indicator	Yellow LED
Dimensions	M18*84.5mm	Ambient temperature	-15°C...+55°C
Output	NO/NC (depends on part No.)	Ambient humidity	35-85%RH (non-condensing)
Supply voltage	20...250 VAC	Voltage withstand	2000V/AC 50/60Hz 60s
Target	Opaque object	Insulation resistance	≥50MΩ(500VDC)
Hysteresis range [%/Sr]	3...20%	Vibration resistance	10...50Hz (0.5mm)
Repeat accuracy [R]	≤5%	Degree of protection	IP67
Load current	≤300mA	Housing material	Nickel-copper alloy
Residual voltage	≤10V	Connection type	M12 Connector

Dimensions



Wiring diagram



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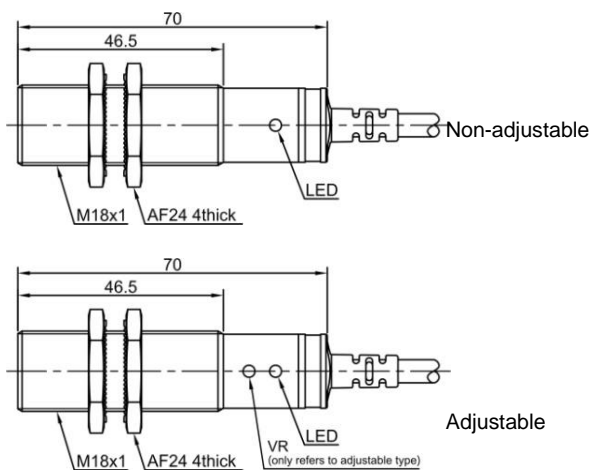
Part number

AC 2 wires NO	PR18-BC10ATO	PR18-BC40ATO	AC 2 wires NC	PR18-BC10ATC	PR18-BC40ATC
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Technical specifications

Detection type	Diffuse reflection	Consumption current	≤3mA
Rated distance [Sn]	10cm (non-adjustable) 40cm (adjustable)	Circuit protection
Standard target	White card reflection rate 90%	Response time	< 50ms
Light source	Infrared LED (880nm)	Output indicator	Yellow LED
Dimensions	M18*70mm	Ambient temperature	-15°C...+55°C
Output	NO/NC (depends on part No.)	Ambient humidity	35-85%RH (non-condensing)
Supply voltage	20...250 VAC	Voltage withstand	2000V/AC 50/60Hz 60s
Target	Opaque object	Insulation resistance	≥50MΩ(500VDC)
Hysteresis range [%/Sr] ³	...20%	Vibration resistance	10...50Hz (0.5mm)
Repeat accuracy [R]	≤5%	Degree of protection	IP67
Load current	≤300mA	Housing material	Nickel-copper alloy
Residual voltage	≤10V	Connection type	2m PVC cable

Dimensions



Wiring diagram

