

## Metal cylindrical shape photoelectric sensors **PR18** series



### Features

- ◆ Emitter and receiver built in one housing, sensing distance adjustable
- ◆ Special optic design, regardless background;
- ◆ Super anti-interference to ambient light;

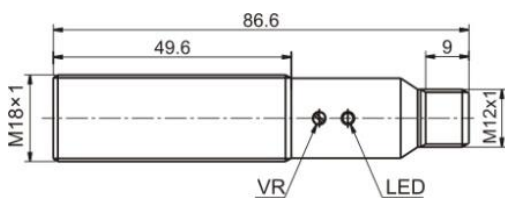
### Part number

NPN NO+NC	PR18-YC10DNR-E2	PNP NO+NC	PR18-YC10DPR-E2
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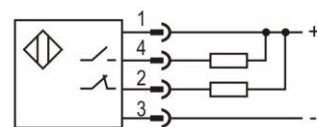
### Technical specifications

Detection type	Background suppression	Consumption current	≤35mA
Rated distance [Sn]	10cm (adjustable)	Circuit protection	Short-circuit, overload and reverse polarity
Standard target	Reflection rate: White 90% Black:10%	Response time	< 2ms
Light source	Red LED (680nm)	Output indicator	Yellow LED
Dimensions	M18*86.6mm	Ambient temperature	-15°C...+55°C
Output	NO+NC	Ambient humidity	35-85%RH (non-condensing)
Supply voltage	10...30 VDC	Voltage withstand	1000V/AC 50/60Hz 60s
WH&BK color variation	≤10%	Insulation resistance	≥50MΩ(500VDC)
Hysteresis range [%/Sr]	≤5%	Vibration resistance	10...50Hz (0.5mm)
Repeat accuracy [R]	≤3%	Degree of protection	IP67
Load current	≤200mA	Housing material	Nickel-copper alloy
Residual voltage	≤2.5V	Connection type	M12 connector

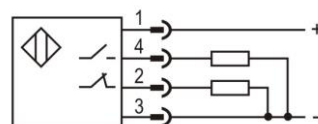
### Dimensions



### Wiring diagram



NPN NO+NC



PNP NO+NC



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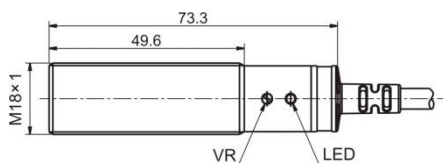
### Part number

NPN NO+NC	PR18-YC10DNR	PNP NO+NC	PR18-YC10DPR
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### Technical specifications

Detection type	Background suppression	Consumption current	≤35mA
Rated distance [Sn]	10cm (adjustable)	Circuit protection	Short-circuit, overload and reverse polarity
Standard target	Reflection rate: White 90% Black:10%	Response time	< 2ms
Light source	Red LED (680nm)	Output indicator	Yellow LED
Dimensions	M18*73.3mm	Ambient temperature	-15°C...+55°C
Output	NO+NC	Ambient humidity	35-85%RH (non-condensing)
Supply voltage	10...30 VDC	Voltage withstand	1000V/AC 50/60Hz 60s
WH&BK color variation	≤10%	Insulation resistance	≥50MΩ(500VDC)
Hysteresis range [%/Sr]	≤5%	Vibration resistance	10...50Hz (0.5mm)
Repeat accuracy [R]	≤3%	Degree of protection	IP67
Load current	≤200mA	Housing material	Nickel-copper alloy
Residual voltage	≤2.5V	Connection type	2m PVC cable

### Dimensions



### Wiring diagram

