

PHOTOELECTRIC SWITCHES

Features

- Diameter M18 x1mm
- Supply voltage 12-30 VDC
- Short circuit protected
- Conforming to IP66
- Fast response



Specifications

Item	Standard
Light Source	Infrared LED (940nm)
Detector	Photo-transistor
Operating Indicator	Red LED, Light when output energized
Sealing	Conforming to IP66(IEC)
Extraneous Light Immunity	300 Lux 3000
Housing Materials	Plastic Housing :ABS resin Metal Housing:Brass Plastic Nut:PBT Metal Nut:Brass Lens:Polycarbonate or PMMA
Ambient Humidity	35-85% RH
Storage Temperature	-30°C to +70°C (-22° F to 158° F)
Cable Length	2m(6.5' Three Conductor Cable
Weight	About 120g (4.3 oz.) for plastic Housing

Product Selection

- **1 2 3 4**

1. TYPE

WE	DC, Metal housing 0.5ms response time
WM	DC, Plastic, housing
WA	AC, Plastic housing
WR	DC, Metal housing

2. SENSITIVITY & DETECTION DISTANCE

T	Thru-Beam.
M	Retro-Reflective.
RXA	Diffuse Reflective.
RXB	Diffuse Reflective.
U	Background Suppression

3. OUTPUT TYPES

2	Universal
3	NPN open collector
4	PNP open collector
5	AC three wire
6	AC two wire

4. Complimentary outputs

L	Light on
D	Dark on

HIGHLY

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Design, specifications are subject to change without notice.

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Model item Type	WM Series DC Type			WA Series DC Type		
	Detecting distance	NPN Output	PNP Output	Detecting distance	AC 3 Wires	AC 2 Wires
Thru-Beam	10M	WM-T3AD	WM-T4AD	10M	WA-T5AD	WA-T6AD
Retro-Reflective	2.4M	WM-M3D WM-M3L	WM-M4D WM-M4L	2M	WA-M5D WA-M5L	WA-M6D WA-M6L
Diffuse Reflective	200mm	WM-R3AL	WM-R4AL	200mm	WA-R5AL	WA-R6AL
Diffuse Reflective	80mm	WM-R3BL	WM-R4BL	80mm	WA-R5BL	WA-R6BL
Background Suppression	45mm	WM-U3L	WM-U4L	45mm	WA-U5L	WA-U6L

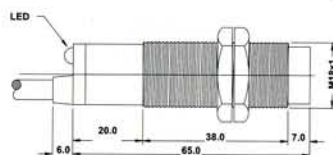
GENERAL SPECIFICATION

Operating Voltage	12-30 VDC
Operating Principle	Thru-Beam
Response Time	10ms
Power-on Reset Time	30ms
Max. Load Current	200mA
Sealing	Conforming to IP66(IEC)
Housing Material	Brass. Ni plated
Cable Length	2 meter
Circuit Protection	1. Output short circuit 2. Reverse polarity of supply voltage

Model Item	Output Circuit	NPN Open Coll.	
		20M	30M
Detecting Distancce		WR-T3D	WR-T4D
		WR-T3AD	WR-T4AD

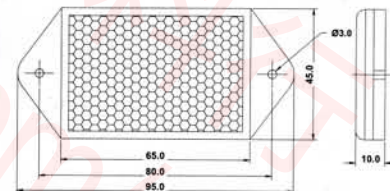
Dimensions

WE Series DC Type Plastic
WM Series DC Type metal

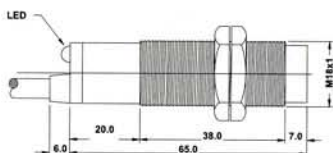


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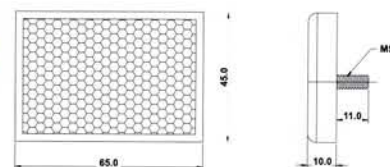
PR-272W



WA Series AC Type WA Type



PR-272S



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