



PM-K45-P



PM-L45-P



PM2-LH10



CY-121B-P-Z



CY-191A-P-Z

Photoelectric sensor transmit a beam which is reflected back from a detected object (*diffused*) or from a reflector (*retro-reflective*) or can be used with a separate transmitter and receiver (*through beam*), typically used for longer distance sensing.

type	supply voltage	diffused	retro-reflective	polarised retro	through-beam	max. sensing distance (mm)	PNP	NPN	light-on	dark-on	connector
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PM series - U type miniature sensor cable connection (1 meter) Ø18 mm x 60 mm

- Output: PNP/NPN open-collector transistor max. 50mA
- LED indication: Orange (*light received*)

Thru U beam	detects objects breaking the beam between the U beam					shape
PM-K45-P	5 - 24 VDC			•		K type
PM-T45-P	5 - 24 VDC			•		T type
PM-L45-P	5 - 24 VDC			•		L type

PM-2 Convergent reflection sensing miniature sensor 25 x 26 x 8.4 mm

Proximity type detection (*no transmitter or reflector required*)

- Output: NPN open-collector transistor max. 50mA
- LED indication: Orange (*operation*) / green (*stability*)

– Transmits a beam which is reflected back from a detected object (*convergent point: 5 mm*)
 – LH10 top sensing - LF10 front sensing

PM2-LH10	5 - 24 VDC	•				•				solder
PM2-LH10B	5 - 24 VDC	•				•				solder
PM2-LF10	5 - 24 VDC	•						•		solder
PM2-LF10B	5 - 24 VDC	•						•		solder

CN-13 plug-in connector (*solder terminal*) for PM2 sensors PM2

M18 CY-100 series - Cylindrical sensors Ø18 mm x 60 mm

- Protection degree: IP67 (EN60529)
- Supply protection: Polarity reversal, Transient, Short circuit
- LED indication: Power and Operation indication
- Connection: M12 - 4-pin connector

Diffuse reflective proximity type detection (*no transmitter or reflector required*)

Sensor transmits a beam which is reflected back from a detected object

CY-121A-P-Z	12 - 24 VDC	•				•				M12 plug
CY-121B-P-Z	12 - 24 VDC	•				•				M12 plug
CY-122A-P-Z*	12 - 24 VDC	•				•				M12 plug
CY-122B-P-Z*	12 - 24 VDC	•				•				M12 plug

* With sensitivity adjustment

Retro-reflective used together with a reflector (*supplied separately*)

Sensor transmits a beam which is reflected back by a reflector

CY-192A-P-Z	12 - 24 VDC		•			•				M12 plug
CY-192B-P-Z	12 - 24 VDC		•			•				M12 plug

Retro-reflective (polarised) used together with a reflector (*supplied separately*)

Transmitted beam is only received by reflector (*unaffected by reflection from shiny surfaces*)

CY-191A-P-Z	12 - 24 VDC			•		•				M12 plug
CY-191B-P-Z	12 - 24 VDC			•		•				M12 plug

Thru-beam (long range) supplied as a set with transmitter and receiver

Detects objects breaking the beam between the transmitter and the receiver

CY-111A-P-Z	12 - 24 VDC				•	•				M12 plug
CY-111B-P-Z	12 - 24 VDC				•	•				M12 plug

Note: NPN available on request (*remove "-P" from the part number*)

Accessories

MS-CY1-1		metallic right angled sensor mounting bracket	CY sensors
MS-CY1-2		adjustable (15°) right angled sensor mounting bracket	CY sensors
RF-410	50 x 47 mm	surface mounting reflector for photo sensors	CY sensors
RF-420	24 x 21 mm	surface mounting reflector for photo sensors	CY sensors

Cables and M8/12 connectors (see page K-27 / 28)