

Photo switches 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	sensing distance (mm)	PNP	NPN	light-on	dark-on	connector
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CY-100 series M18 axial beam 12 - 24 VDC M12 - 4-pin connector

- Protection degree: IP67 (EN60529)
- Supply protection: Polarity reversal, Transient, Short circuit
- LED indication: Power and Operation indication
- Connection: M12 - 4-pin connector
- Housing material: PBT (*housing*), PMMA (*lens*)
- Dimensions: Ø 18 mm x 60 mm
- Ambient limits: - 25 x 55°C



CY-121B-P-Z

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

– Photo switch transmits a beam which is reflected back from a detected object

CY-121A-P-Z	12 - 24 VDC		100		M12
CY-121B-P-Z	12 - 24 VDC		100		M12
CY-122A-P-Z*	12 - 24 VDC		600		M12
CY-122B-P-Z*	12 - 24 VDC		600		M12

* With sensitivity adjustment

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

– Photo switch transmits a beam which is reflected back by a reflector

CY-192A-P-Z	12 - 24 VDC		4 met		M12
CY-192B-P-Z	12 - 24 VDC		4 met		M12

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		2 met		M12
CY-191B-P-Z	12 - 24 VDC		2 met		M12

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		15 met		M12
CY-111B-P-Z	12 - 24 VDC		15 met		M12

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

Accessories for above cylindrical photo switches

Cable and connectors		IP67/68		
SGN01021-373	M12	4 pin	assembly connector with screw terminals	straight
SGN01024-373	M12	4 pin	assembly connector with screw terminals	90° angled
SGN01005-373	M12	4 pin	PUR cable and connector (<i>2 meters</i>)	straight
SGN01006-373	M12	4 pin	PUR cable and connector (<i>5 meters</i>)	straight
SGN01007-373	M12	4 pin	PUR cable and connector (<i>2 meters</i>)	90° angled
SGN01008-373	M12	4 pin	PUR cable and connector (<i>5 meters</i>)	90° angled

Mounting brackets

MS-CY1-1	metallic right angled sensor mounting bracket
MS-CY1-2	adjustable (15°) right angled sensor mounting bracket

Reflectors for retro-reflective sensors

RF-410	24 x 21 mm	surface mounting reflector for photo switches
RF-420	50 x 47 mm	surface mounting reflector for photo switches



SGN01021-373



SGN01007-373