

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	max. sensing distance (mm)	PNP	NPN	light-on	dark-on	connector
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Photoelectric sensors IP66 (EN60529) **2 meter cable connection**

NX5 series (rectangular) multi-voltage

- Multi-voltage: 24 - 240 VAC / 12 - 240 VDC
- Sensitivity: Continuously adjustable
- Relay output: 1A 250 VAC (*hermetically sealed*)
- LED indication: Red: (*power ON*) Green: (*stable light received*)
- Dimensions: 62 x 18 x 35 mm

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

NX5-D700A	24 - 240 VAC/DC	•				700			•		cable
NX5-D700B	24 - 240 VAC/DC	•				700				•	cable

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

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

NX5-RM7A	24 - 240 VAC/DC		•			7 met			•		cable
NX5-RM7B	24 - 240 VAC/DC		•			7 met				•	cable

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

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

NX5-PRVM5A	24 - 240 VAC/DC			•		5 met			•		cable
NX5-PRVM5B	24 - 240 VAC/DC			•		5 met				•	cable

Thru-beam supplied as a set with transmitter and receiver

– Detects objects breaking the beam between the transmitter and the receiver

NX5-M10RA	24 -240 VAC/DC				•	10 met			•		cable
NX5-M10RB	24 - 240 VAC/DC				•	10 met				•	cable
NX5-M30A	24 - 240 VAC/DC				•	30 met			•		cable
NX5-M30B	24 - 240 VAC/DC				•	30 met				•	cable

Accessories for above NX5 photo switches

Mounting brackets

- MS-NX5-1** metallic right angled foot mounting bracket for NX5 retro-reflective sensors
- MS-NX5-3** metallic right angled rear mounting bracket for NX5 retro-reflective sensors

Reflectors for retro-reflective sensors

- RF-230** standard reflector 59 x 50.3 mm for retro-reflective sensors

Fibre-optic sensors

Fibre-optic amplifiers transmit and receive signal via an attached fibre-optic cable with an optic sensor on the end. The fibre sensor determines the type of sensing as well as the distance it can sense. Totally unaffected by any source of electrical noise.



type	supply voltage	sensing distance (mm)	PNP	NPN	light-on	dark-on	connector
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FX series fibre-optic amplifiers M8 - 4-pin connector (*supplied separately*)

- Mounting: DIN rail mounting or side mounting with 3.2 mm screws
- Sensitivity setting: 2-point teaching / Limit teaching / Full-auto teaching
- Timer function: ON-delay, OFF-delay, no timer (*selectable*) 1 - 1000 ms
- LED indication: Orange LED when output is ON / Red and Green 4 digit display
- Dimensions: 32 x 9 x 66.4 mm

Amplifier for optical fibres

FX-102P-Z	12 - 24 VDC	dependant on fibre used	•		•	•	M8 plug
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Cables and M8 connectors see page K-21)