

TAKEX - M5, M6 PHOTOELECTRIC SENSORS WITH BUILT-IN AMPLIFIER

UXT100D-PNP

Photosensor M5 through beam 1m cable

- Stainless housing and chemical-resistant lenses
- Side-facing through-beam in M5 housing
- Built-in amplifier
- IP67



PRODUCT DESCRIPTION

The UX series of photoelectric sensors come with a built-in amplifier. In terms of size, they are similar to fibre but no separate amplifiers are required. The stainless steel housings and polysulphone lenses are chemical-resistant and so these photoelectric sensors are ideal for use anywhere where cleanliness is required, such as when working with food or medicines, where the photoelectric sensors will come into contact with detergents.

TECHNICAL DATA

Order number	UXT100D-PNP	UXT50DS-PNP	UXR5V-PNP
Function	Through-beam		Diffuse Reflection
Housing size	M5x0.5	M5x0.5 side-facing	M6x0.75
Detection distance	1000 mm	500 mm	3 - 50 mm*
Smallest detectable objects	Ø4 mm	Ø5 mm	-
Supply voltage	12-24 V DC ±10 % max. 10 % ripple, protected against pole reversal		
Internal consumption	Transmitter 15 mA max., receiver 15 mA max.		20 mA max.
Output	PNP open collector 80 mA (30 V DC max.), short circuit-proof		
Function	Dark on		Light on
Reaction time	0.5 ms (max.)		
Light source	Visible red LED (630 nm)	Visible red LED (625 nm)	Infrared LED (870 nm)
LED indication	Orange LED output indication. Green LED comes on when detection is satisfactory		
Sensitivity setting	-		Potentiometer
Protection class	IP67		
Enclosure material	Stainless housing. Lens made from polysulphone.		
Temperature range	-25 °C to +55 °C		

Connection	2 m cable
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* To 100x100 mm white paper.

DIMENSIONS

UXT100D

UXT50DS

UXR5V


CONNECTION



ORDER NUMBER

Order no.	Version	Output	Distance
UXT100D-PNP	Through-beam	PNP	1000 mm
UXT50DS-PNP	Through-beam, side-facing	PNP	500 mm
UXR5V-PNP	Diffuse Reflection	PNP	3-50 mm

SPECIFICATIONS

Approvals	CE
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Distance Min	0 mm
Electrical connection	Cable 2 m
Function	Dark On
IP Class	IP67
Lens material	Polysulfone
Light / Dark Switching	Yes
Light type	Red LED
Material of body	Stainless steel
Output	PNP
Output current max	0.08 A
Photocell technology	Transmitter / receiver
Power consumption max	0.015 A
Reaction time	0.5 ms
Sensing	1000 mm
Temperature range from	-25 °C
Temperature range to	55 °C
Voltage DC max	24 V
Voltage DC min	12 V

