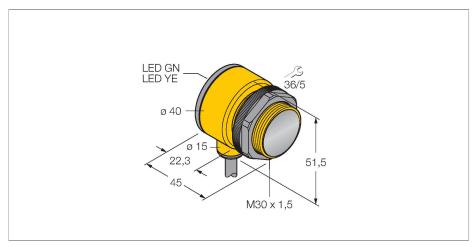
T30RW3R W/30 Photoelectric Sensor – Opposed Mode Sensor (Receiver)



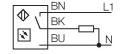
Technical data

ID no. 3033964 Optical data Opposed mode sensor Function Opposed mode sensor Operating mode Receiver Range 060000 mm Electrical data 20250 VAC AC rated operational current ≤ 200 mA Output function Dark operation, Relay output Switching frequency ≤ 40 Hz Readiness delay ≤ 100 ms Response time typical < 16 ms Mechanical data Pesign Dimensions Ø 30 x 45 x 40 x 51.5 mm Housing material Plastic, Thermoplastic material	Туре	T30RW3R W/30
FunctionOpposed mode sensorOperating modeReceiverRange060000 mmElectrical data20250 VACOperating voltage20250 VACAC rated operational current≤ 200 mAOutput functionDark operation, Relay outputSwitching frequency≤ 40 HzReadiness delay≤ 100 msResponse time typical< 16 ms	ID no.	3033964
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Dimensions Ø 30 x 45 x 40 x 51.5 mm	Mechanical data	
	Design	Rectangular with thread, T30
Housing material Plastic Thermonlastic material	Dimensions	Ø 30 x 45 x 40 x 51.5 mm
Trousing material	Housing material	Plastic, Thermoplastic material
Lens plastic, Acrylic	Lens	plastic, Acrylic
Electrical connection Cable, 9 m, PVC	Electrical connection	Cable, 9 m, PVC
Number of cores 3	Number of cores	3
Core cross-section 0.5 mm ²	Core cross-section	0.5 mm ²
Ambient temperature -40+70 °C	Ambient temperature	-40+70 °C
Protection class IP69	Protection class	IP69
Special features Encapsulated Wash down	Special features	·
Power-on indication LED, Green	Power-on indication	LED, Green
Switching state LED, Yellow	Switching state	LED, Yellow

Features

- Cable, 2 m
- Protection class IP67
- ■Ambient temperature: -40...+70 °C

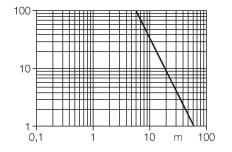
Wiring diagram



Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque targets. An excellent contrast between light and dark conditions and an extremly high excess gain are typical of this sensing mode, thus allowing operation over larger distances and under difficult conditions. Excess gain curve

Excess gain in relation to the distance

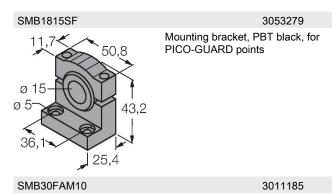


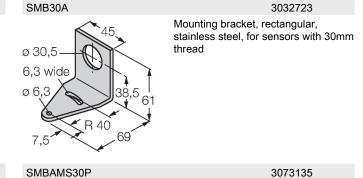


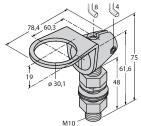
Technical data

Excess gain indication	LED
Tests/approvals	
Approvals	CE, UL, CSA

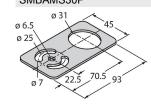
Accessories







Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm



Mounting bracket, stainless steel, for sensors with 30 mm thread