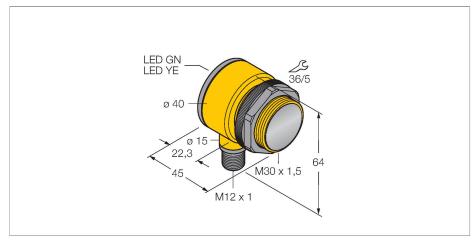
T30AW3RQ1 | 06-05-2021 00-18 | Technical modifications reserved

T30AW3RQ1 Photoelectric Sensor – Opposed Mode Sensor (Receiver)



Technical data

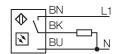
Туре	T30AW3RQ1			
ID no.	3033446			
Optical data				
Function	Opposed mode sensor			
Operating mode	Receiver			
Range	060000 mm			
Electrical data				
Operating voltage	20250 VAC			
AC rated operational current	≤ 200 mA			
Output function	Light operation, Relay output			
Switching frequency	≤ 40 Hz			
Readiness delay	≤ 100 ms			
Response time typical	< 16 ms			
Mechanical data				
Design	Rectangular with thread, T30			
Dimensions	Ø 30 x 45 x 40 x 64 mm			
Housing material	Plastic, Thermoplastic material			
Lens	plastic, Acrylic			
Electrical connection	Connectors, 1/2", PVC			
Number of cores	4			
Ambient temperature	-40+70 °C			
Protection class	IP69			
Special features	Encapsulated Wash down			
Power-on indication	LED, Green			
Switching state	LED, Yellow			
Excess gain indication	LED			



Features

- ■M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- ■Ambient temperature: -40 °C...+70 °C

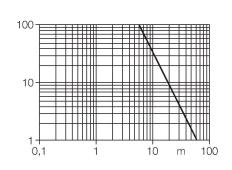
Wiring diagram



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



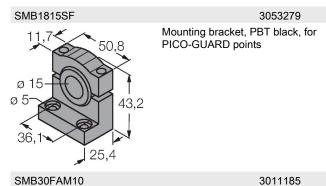


Technical data

Test	ts/	a _l	pp	ro	val	ls

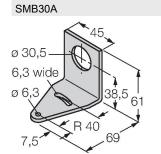
Approvals CE, UL, CSA

Accessories

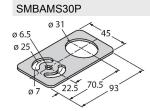




Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm



3032723 Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread



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

3073135