

# T30AW3LP W/30

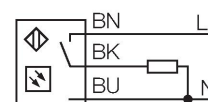
## Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



### Features

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

### Wiring diagram



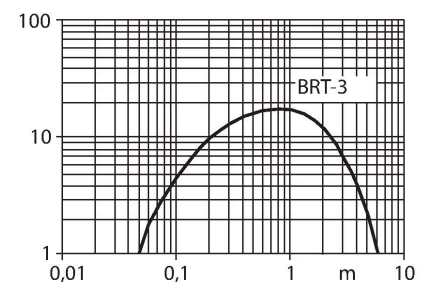
### Functional principle

Retro-reflective sensors incorporate emitter and receiver in a single compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors have a high function gain and good contrast performance. Further it is merely required to install and wire a single device.

Excess gain curve  
Excess gain in relation to the distance

### Technical data

Type	T30AW3LP W/30
ID no.	3033943
<b>Optical data</b>	
Function	Retroreflective Sensor
Operating mode	Polarized
Reflector included in delivery	no
Light type	Red polarized
Wavelength	680 nm
Range	50...6000 mm
<b>Electrical data</b>	
Operating voltage	20...250 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
<b>Mechanical data</b>	
Design	Rectangular with thread, T30
Dimensions	Ø 30 x 45 x 40 x 51.5 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Acrylic
Electrical connection	Cable, 9 m, PVC
Number of cores	3
Core cross-section	0.5 mm <sup>2</sup>
Ambient temperature	-40...+70 °C
Protection class	IP69



## Technical data

Special features	Encapsulated Wash down
Power-on indication	LED, Green
Switching state	LED, Yellow
Excess gain indication	LED
<b>Tests/approvals</b>	
Approvals	CE, UL, CSA

## Accessories

<p><b>SMB1815SF</b></p>	<p><b>3053279</b></p> <p>Mounting bracket, PBT black, for PICO-GUARD points</p>	<p><b>SMB30A</b></p>	<p><b>3032723</b></p> <p>Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread</p>
<p><b>SMB30FAM10</b></p>	<p><b>3011185</b></p> <p>Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm</p>	<p><b>SMBAMS30P</b></p>	<p><b>3073135</b></p> <p>Mounting bracket, stainless steel, for sensors with 30 mm thread</p>

## Accessories

<p>Dimension drawing</p>	<p>Type</p> <p>BRT-3</p>	<p>ID no.</p> <p>3016164</p>	<p>Round reflector, reflection coefficient 1.0, material acrylic, ambient temperature -20...+60 °C</p>
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