



## **Order designation**

ToF-S1; Time-of-Flight (ToF) Sensor

ToF-1Sn\*: Art.-No. 10001720 ToF-1St\*: Art.-No. 10001722

\*n = Potentiometer \*t = Teach-In button

## **Features**

- Time-of-Flight (TOF) sensor
- Exact distance setting, independent from background
- Excellent detection capability
- Small and sleek design
- Operating range from 0.2 m up to
- Easy mounting
- Insensitive to ambient light up to 100,000 Lux

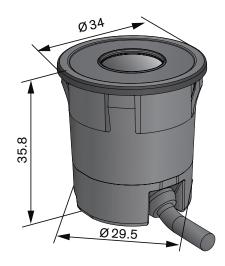
## **Typical Applications**

- Presence detection of vehicles and persons
- Presence and movement detection, e.g. at car park barriers
- Opening pulse generator of industrial doors
- Replaces 'pull-string' door opening
- Height classification of objects

## **Approvals and certificates**

 This device is CE certified and may be operated in all countries of the European Community. In other countries, the applicable national regulations must be observed.

### **Dimensions**



All dimensions in mm

	Data

General data	
EMV emission	EN 12015:2014 EN 61000-6-3:2007, +A1:2011
EMV Immunity	EN 12016:2013 EN 61000-6-2:2019
Vibration	IEC 60068-2-6:2007
Shock	IEC 60068-2-27:2008
RoHS	2011/65/EU
Certificate	CE

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Optical	
Operating range - T Type - N Type	0.2 6 m 0.2 3 m
Active light spot at 2 m distance	20 mm × 20 mm
Offset - T Type	0.15 m (from background)
Measurement precision	±5 % at 2 m ±10 cm over the whole range
Max. ambient light	100,000 Lux
Mechanical	
Dimensions	Ø 29.5 mm × 35.8 mm
Housing material	Polycarbonate
Housing color	Black
Enclosure rating	IP65
Temperature range	−40 °C +60 °C
Relative humidity (non-condensing)	0 95 %
Elektrical	
Supply voltage U <sub>SP</sub>	10 30 VDC
Current consumption at 24 VDC	50 mA
Peak current consumption during 500 mA power up at 24 VDC	500 mA
Outputs	Solid-state relay or dynamic universal
Max. switching voltage	60 V
Max. switching current	150 mA

1 s

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60 m s



Max. power-up time

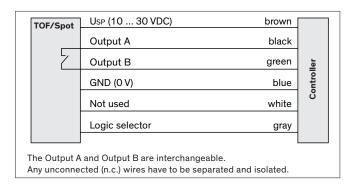
Max. response time

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Technical Data		
Sensor: Connection cable	e and elektrical connections	
Length	0.25 m	
Connection	Screwable, M8, 6-pin	
Diameter	Ø 4.2 mm	
Material	PVC, black	
Plug color	Blau	
Connection cable and elel	ktrical connections	
Length	2 m (other lengths on request)	
Connection	Screwable, M8, 6-pin	
Diameter	Ø 4.2 mm	
Material	PVC, black	
Plug color	Blue	
Wires	AWG26	
• brown	+USP	
• black	Output A	
• green	Output B	
• blue	GND (0 V)	
• white	Not used	
• gray	Logic selector	

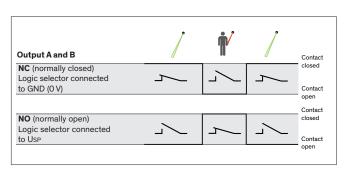
## **Connection diagram**

## Solid state relay output



# **Logic selector**

# Solid state relay output



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