

# TOF/Spot

# Technical data

#### **FEATURES**

- ► Time-of-Flight (TOF) sensor
- Exact distance setting, independent from background
- Excellent detection capability
- ▶ Solid-state relay and analog output
- Small and sleek design
- Operating range from 0.2 m up to 6 m
- Easy mounting
- Insensitive to ambient light up to 100,000 Lux



#### **OPTICAL**

Operating range	
- P, C, T and A types	0.2 6 m
- N type	0.2 3 m
Active light spot at 2 m distance	40 mm × 40 mm
Offset	
- C and T types	0.15 m
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 %C

# **ELECTRICAL**

Supply voltage Usp	10 30 VDC / 12 24 VAC
Current consumption at 24 VDC	50 mA
Peak current consumption during power up at 24 VDC	500 mA
Output	Solid-state relay, analog
Max. switching voltage	60 V
Max. switching current	150 mA
Max. power-up time	1 s
Max. response time	60 ms
Test response time	5 ms

$$\label{eq:potential} \begin{split} P = & \text{Preset, C} = \text{Automatic calibration, N} = & \text{Potentiometer, A} = \text{Analog,} \\ T = & \text{Teach-in button} \end{split}$$

#### CONNECTION CABLE AND ELECTRICAL CONNECTION

Sensor	
Length	0.25 m
Connection	M8, 6-pin
Diameter	Ø 4.2 mm
Material	PVC, black
Plug color	Blue
Connection cable	
Length	2 m (other lengths on request)
Connection	M8, 6-pin
Diameter	Ø 4.2 mm
Material	PVC, black
Plug color	Blue
Wires	AWG26
• brown	+Usp
• black	Output A / Analog output
• green	Output B / Analog GND
• blue	GND (0 V) / -Usp
	Test input
• white	

EN 12015:2014
EN 12016:2013
IEC 60068-2-6:2007
IEC 60068-2-27:2008
2011/65/EU
CE

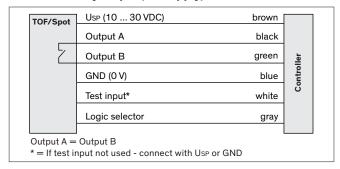


CEDES AG is certified according to ISO 9001: 2015.

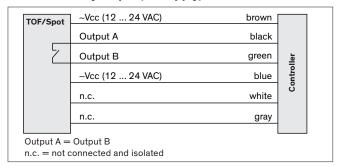


#### **Output connections**

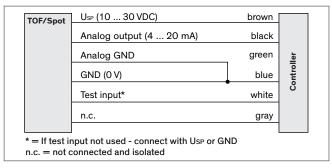
#### Solid state relay output (DC supply)



#### Solid state relay output (AC supply)



#### Analog output (DC supply)

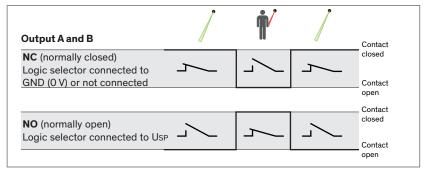


#### **Dimensions**

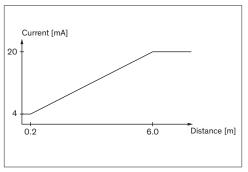


#### **Output description**

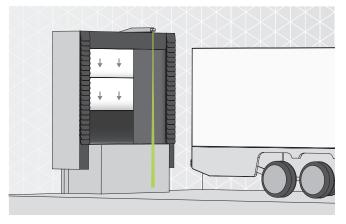
# Solid state relay output



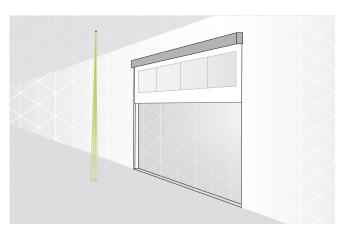
# **Analog output**



### **Application examples**



Truck detection in loading bay



Replaces ,pull-string' door opening