



Order designation

TOF-2D-EA; Motion detector with cross-traffic suppression

TOF-2D-EA-N-B:
Angle/Potentiometer

Art.-No. 10001857

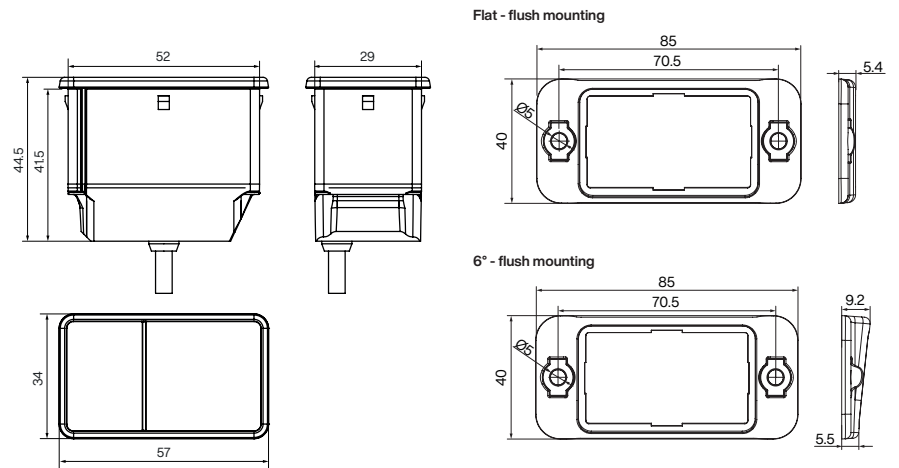
Features

- Ignores cross-traffic via intelligent direction recognition
- Excellent detection capability, independent of reflectance
- Individual setting of the detection area
- Detection area operates with all types of background

Typical Applications

- Opening impulse for
 - Revolving doors
 - Swing doors
 - Sliding doors

Dimensions



All dimensions in mm

Technical Data

General data	
Eye safety	EN 62471:2008
EMV emission	EN 61000-6-3:2007 EN 12015:2014
EMV Immunity	EN 61000-6-2:2005 EN 12016:2013
Vibration	IEC 60068-2-6:2007
Shock	IEC 60068-2-27:2008
RoHS	2011/65/EU
Certificate	CE
Optical	
Detection area	
- Length	Min. 0 ... 400 mm; Max. 0 ... 2000 mm
- Width	Min. 0 ... 400 mm; Max. 0 ... 2000 mm
Mechanical	
Dimensions (w x h x l)	57 x 34 x 44.5 mm
Housing material	Polycarbonate
Housing color	Black
Enclosure rating	IP65
Temperature range	-20 °C ... +65 °C
Electrical	
Supply voltage U_{sp}	24 VDC $\pm 20\%$
Current consumption at 24 VDC	50 mA (peak max. 0.5 A)
Output	PNP/NPN (push-pull)
Max. response time	
Area without cross-traffic < 1 m	200 ms
Area with cross-traffic > 1 m	400 ms
Min. switching time	200 ms
Power-on time	1 s
Sensor: Connection cable and electrical connections	
Length	0.25 m
Connection	M8, 6-pin
Diameter	\varnothing 4.2 mm
Material	PVC, black
Plug color	Blue

Technical Data

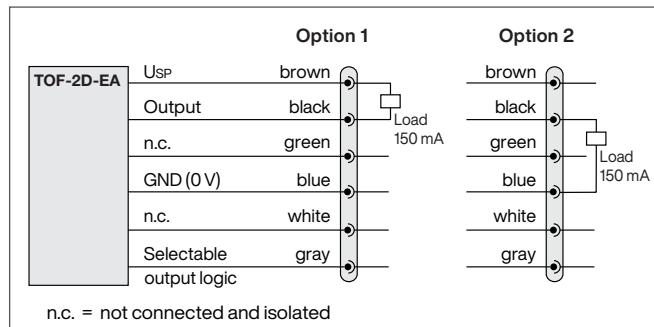
Connection cable and electrical connections

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	U_{SP}
• black	Output
• green	Not connected
• blue	GND (0 V)
• white	Not used
• gray	Selectable output logic

Zulassungen und Zertifikate

CE	may be operated in all countries of the European Community. In other countries, the applicable national regulations must be observed.
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Connection diagram



Logic selector

Logic selector connected to U_{SP}

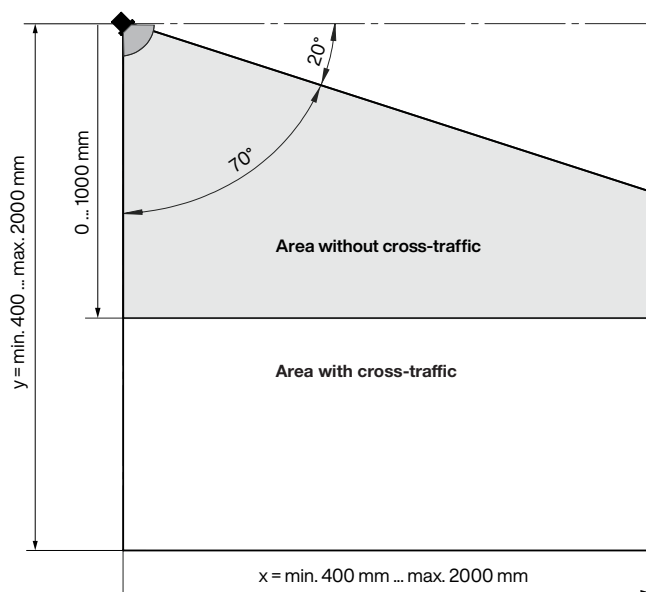


Logic selector connected to GND (0 V)



Wire before commissioning, as the logic selector input is only evaluated when switched on.

Detection area



Parameter	Value
Operating range x-axis	Min.: 0 ... 400 mm Max.: 0 ... 2000 mm
Operating range y-axis	Min.: 0 ... 400 mm Max.: 0 ... 2000 mm
Aperture angle	70°

