

TLS 500

Technical data

FEATURES

- ▶ Small and sleek design
- ▶ Infrared reflective technology
- ▶ Excellent detection capability
- ▶ PNP or NPN output, light on or dark on available
- ▶ Operating range up to 6 m
- ▶ Easy mounting
- ▶ Insensitive to ambient light up to 100,000 Lux
- ▶ Test input for N and P types



OPTICAL

Max. operating range	6 m
Ø active light spot at 2 m distance	0.24 m
Aperture angle	±3.5°
Min. distance to background	0.2 m
Recalibration time (N-type)	10 s
Recalibration adjust time (P-type)	3 ... 180 s
Max. ambient light	100,000 Luxx

MECHANICAL

Dimensions (w × h × d)	32 × 24 × 22 mm
Housing material	Polycarbonate (UL 94-V0)
Housing color	Black
Enclosure rating	IP65
Temperature range	-20°C ... +60°C
Relative humidity (non-condensing)	0 ... 95%

ELECTRICAL

Supply voltage U _{Sp}	10 ... 30 VDC
Max. current consumption at 24 VDC	12 mA
Output	PNP or NPN
Output logic	Light-On (LO) or dark-on (DO)
Max. power-up time	150 ms
Max. response time	150 ms
Max. test response time	150 ms

CONNECTION CABLE AND ELECTRICAL CONNECTION

Length	2 m
Diameter	Ø 3.4 mm
Material	PVC, black
Wires	AWG26
• brown	U _{Sp}
• blue	GND (0 V)
• black	Output
• white	Test input (N- and P-type) If no test signal is available, connect white wire with U _{Sp}

GENERAL

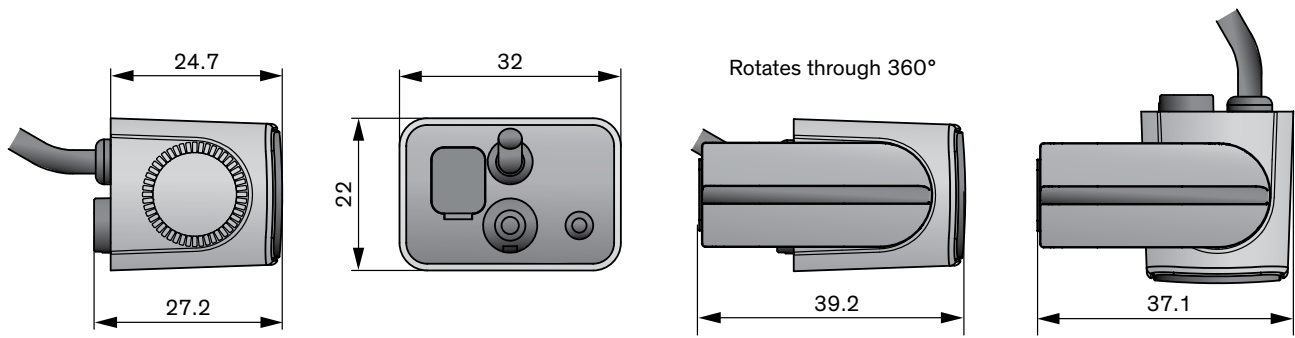
EMC emission	EN 61000-6-3:2007
EMC immunity	EN 61000-6-2:2005
Vibration	IEC 60068-2-6:2007
Shock	IEC 60068-2-27:2008
RoHS	2011/65/EU
Certificate	CE



CEDES AG is certified according to ISO 9001: 2015

Dimensions

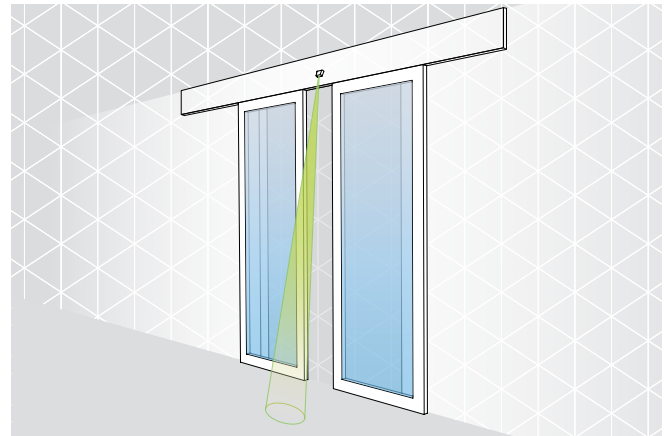
All dimensions in mm
Proportions not to scale



Applications



Escalators



Sliding door (angled mounting)