

TLS 250 product family

... safety and comfort for automatic doors!



EN 954-1



Features

- Infrared-based diffuse-reflective sensor
- Active lightspot, elliptic or circular
- Excellent detection capability
- Operating range up to 6 m
- Simple mounting, wide range of mounting kits available
- Designed for indoor and outdoor applications
- Insensitive to ambient light

Technical data

	TLS 250-N (-NP)	TLS 250-NGD	TLS 250-G	TLS 250-W (-WP)	TLS 250-VR
Operating range	0.6 ... 4 m, automatic	0.6 ... 4 m, automatic	0.6 ... 6 m, automatic	0.6 ... 4 m, automatic	0.6 ... 6 m, adjustable
Active lightspot @ 2 m	0.3 m (circular)	0.3 m (circular)	0.3 m (circular)	0.8 x 0.15 m (elliptical)	0.3 m (circular)
Aperture angle	8°	8°	8°	4° x 23°	8°
Min. distance to b'ground	0.6 m	0.6 m	1.3 m	0.4 m	0.6 m
Recalibration interval	10 s	10 s	60 s	10 s	No recalibration
Recalibration adjustm. time	3 ... 600 s, option P	-	-	3 ... 600 s, option P	-
Typ. reaction / fall time	50 / 500 ms	50 / 500 ms	50 / 500 ms	50 / 2,000 ms	20 / 20 ms
Cable length	2 m	2 m	6 m	2 m	2 m

Electrical

Supply voltage U_{sp}	12 ... 40 VDC
Current consumption	40 mA @ U_{sp} 36 VDC
Output	Relay
Max. output current	1.0 A / 30 VDC, 1.0 A / 48 VAC
Max. output	30 W / 60 VA 48 VAC / 60 VDC
Max. ambient light	10,000 Lux
Switching hysteresis	Ca. 200 mm

Mechanical

Dimensions	Ø 56 mm
Housing material	ABS
Housing color	Black
Enclosure rating	IP65
Temperature range	-20 ... +65°C
Humidity	30 ... 90%, non condensing

Cable

Brown	U_{sp}
White	GND
Yellow	NO
Gray	COM
Green	NC
Cable connection	5 pole wires
Cable material	PVC
Cable color	Black

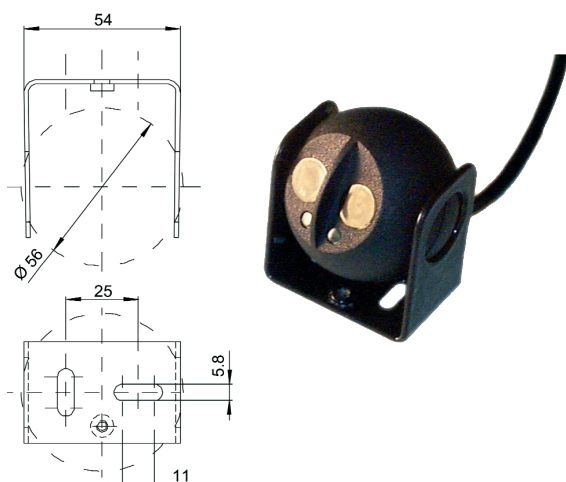
General

EMC emission	EN 50081-1, -2
EMC immunity	EN 50082-1, -2
Surge voltage	EN 61000-4-5
Safety category	EN 954-1, Cat. B
Vibration, Shock	EN 60068-2-6
Certificates	CE, CSA

Dimensions

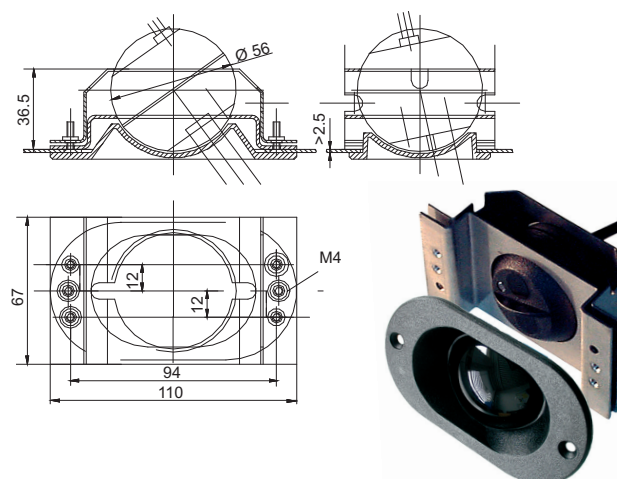
Mounting bracket

Material: Stainless steel, black (rubberized)
Application: Surface mounting



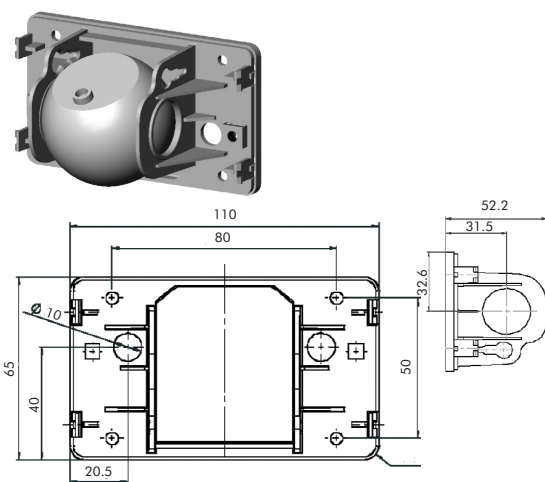
Complete mounting kit

Material: Stainless steel
Application: Backwall mounting



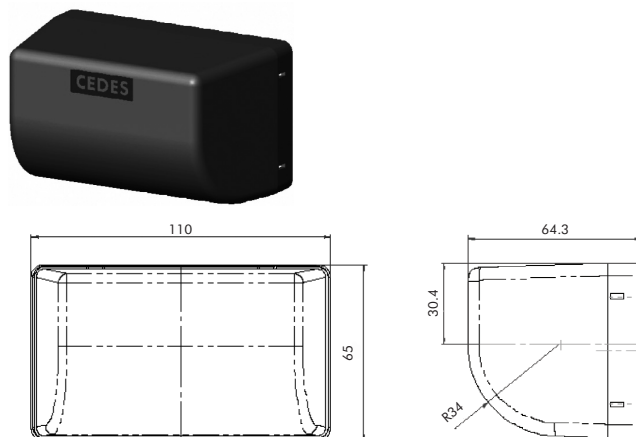
Holder, IR-transparent

Material: Black polycarbonate
Application: Backwall or surface mounting



Cover, IR-transparent

Material: Black, infrared transparent polycarbonate
Application: Surface mounting



(All dimensions in mm)

Ordering information

Part no.	Type	Description
101 618	TLS 250-N	Range approx. 0.6 ... 4 m, circular detection area, relay output, 2 m cable without plug
102 931	TLS 250-NGD	TLS 250-N with shielded housing for transportation
101 935	TLS 250-NP	TLS 250-N with adjustable calibration time 3 ... 600 seconds
101 624	TLS 250-W	Range approx. 0.6 ... 4 m, elliptical detection area, relay output, 2 m cable without plug
101 937	TLS 250-WP	TLS 250-W with adjustable calibration time 3 ... 600 seconds
104 354	TLS 250-VR	Manual range setting 0.6 ... 6 m, circular detection area, relay output, 2 m cable without plug
105 834	TLS 250-G	Range approx. 0.6 ... 6 m, circular detection area, relay output, 6 m cable without plug

Accessories

101 675	Mounting bracket	Made from stainless steel, black rubberized, for surface mounting
102 483	Mounting kit, cpl.	For direct installation into ceilings (incl. Part no. 102 387, 102 388 and 102 389)
104 796	Mounting kit, all purpose	For backwall or surface mounting (including Part no. 104 806, 104 807 and 102 009)
104 806	Holder, IR-transparent	Black, for backwall or surface mounting
104 807	Cover, IR-transparent	Black, infrared transparent, for surface mounting
102 009	Cover, IR-transparent, oval/flat	Black, infrared transparent, oval / flat
102 387	Cover, IR-transparent, spheric	Black, infrared transparent, spheric shape
101 930	IR cover, D55mm	Infrared transparent, cross section inner 40 mm, outer 55 mm
102 271	IR-cover, D80mm	Infrared transparent, cross section inner 57 mm, outer 80 mm
102 771	Alignment tool	Alignment aid with laser pointer

Other configurations on request