

IMS 100 Pro

Technical data

FEATURES

- Prevents accidents
- Prevents damage to elevator doors
- Offers double safeguarding when combined with light curtain
- No need to configure the monitored area
- Automatic door recognition using TOF technology
- Extremely reliable object detection using TOF technology
- Ideal for both new facilities and modernization
- Entrance area monitoring reduces door-opening time
- Suitable for center and side opening applications



OPTICAL

Detection height	0.6 ... 2.5 m
Detection area at 2 m	200 mm × 900 mm
Min. object detection at 2 m	40 mm
Pixel	160 × 60
Detection offset from floor	300 mm
Wave length	850 nm

MECHANICAL

Dimensions (l × h × w)	132 × 36 × 34 mm
Housing material	Aluminum, PC
Enclosure rating	IP65
Temperature range	-20°C ... +60°C

ELECTRICAL

Supply voltage U _{sp}	24 VDC ±20%
Max. / typ. current consumption at 24 VDC	500 mA / 200 mA
Output	PNP
Max. output load	120 mA, 100 nF
Output logic	LOW = Object HIGH = No object
Response time	350 ms
Max. recalibration time	1.5 s
Indication LED (red):	LED on Object detected LED off No object detected

CONNECTION CABLE AND ELECTRICAL CONNECTION

Length - sensor cable	0.5 m
Length - connection cable	2.8 m
Cable diameter	Ø 3.5 mm
Material	PVC, black
Connection	M8, 4-pin, Ø 10 mm
Ferrite core	Diameter Ø 16 mm Length 42 mm
Wires	AWG26
• brown	U _{sp}
• blue	GND (0 V)
• black	Output
• white	Time-out selector (18 s / 7 s or infinity [off])

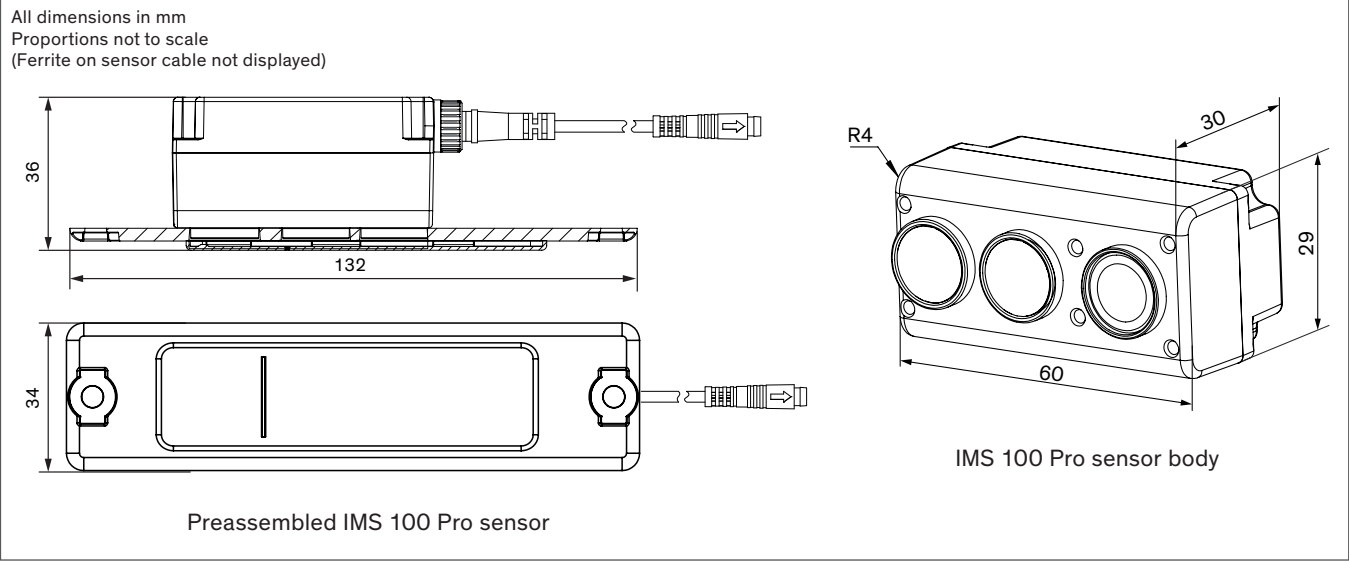
GENERAL

Eye safety	IEC 60825-1
EMC emission	EN 12015:2014
EMC immunity	EN 12016:2013
Vibration	IEC 60068-2-6:2007
Shock	IEC 60068-2-27:2008
RoHS	2011/65/EU
Certificates	CE, UKCA, CSA



CEDES AG is certified according to ISO 9001: 2015.

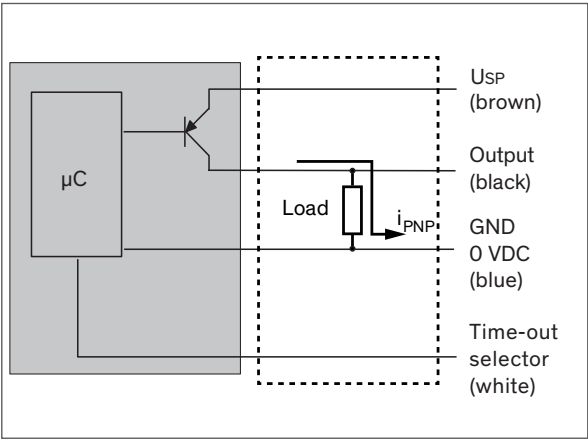
Dimensions



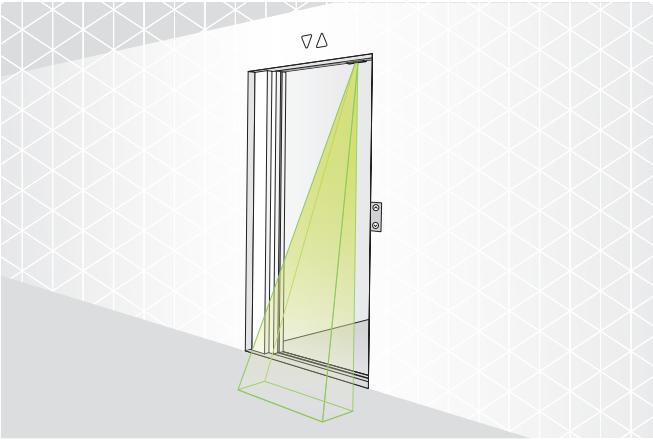
Output logic

Output			
	USP		
0 V			
Status	No object	Object detected	Door mode
Output	24 VDC HIGH	0 VDC LOW	24 VDC HIGH
Red LED	OFF	ON	Blinking

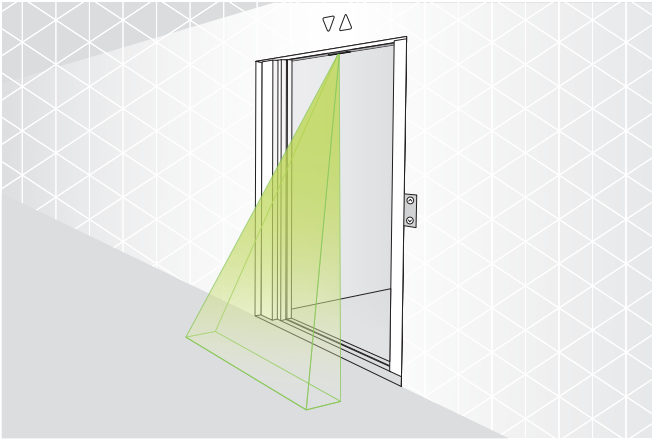
Electrical connection



Applications



IMS 100 Pro - corner-mounted for side-opening doors



IMS 100 Pro - center-mounted for center-opening doors