

# IMS 100

## Technical data

### Optical

Detection height	0.6 m ... 2.5 m
Detection area at 2 m	200 mm × 900 mm
Min. object detection at 2.5 m	50 mm
Wave length IR	850 nm

### Mechanical

Dimensions (w × h × d)	102 × 27 × 23 mm
Housing material	Aluminum, Polycarbonate (PC)
Enclosure rating	IP54
Temperature range	-20 °C ... +45 °C
Mechanical adjustment range	±30°

### Electrical

Power supply U <sub>Sp</sub>	24 VDC ±10 %
Max. current consumption at 24 VDC	200 mA
Output	PNP
Max. output load	50 mA, 100 nF
Output logic	LOW = Object, HIGH = no Object
Response time	350 ms
Indication LED (red): LED on	Object detected
LED off	No object detected
Max. optical illumination LED power	0.5 W
Max. recalibration time	1.5 s

### Connection cable and electrical connection

Length sensor cable	0.5 m
Length connection cable	2.8 m
Diameter	Ø 3.5 mm
Material	PVC, black
Connection	M8, 4-pin
Wires	AWG26
• brown	U <sub>Sp</sub> (24 VDC ±10 %)
• blue	GND (0 V)
• black	Output (PNP)
• white	Time-out selector (18 s or infinity)

### General

Eye safety norm	EN 62471:2008
EMC emission	EN 50081-1:1992 EN 12015:2004
EMC immunity	EN 50081-2:1994 EN 12016:2004
Vibration	EN 60068-2-6:2008
Shock	EN 60068-2-27:2009
Cable durability	IEC 60227-2:2003
Certificates	CE, CSA
RoHS	2011/65/EU



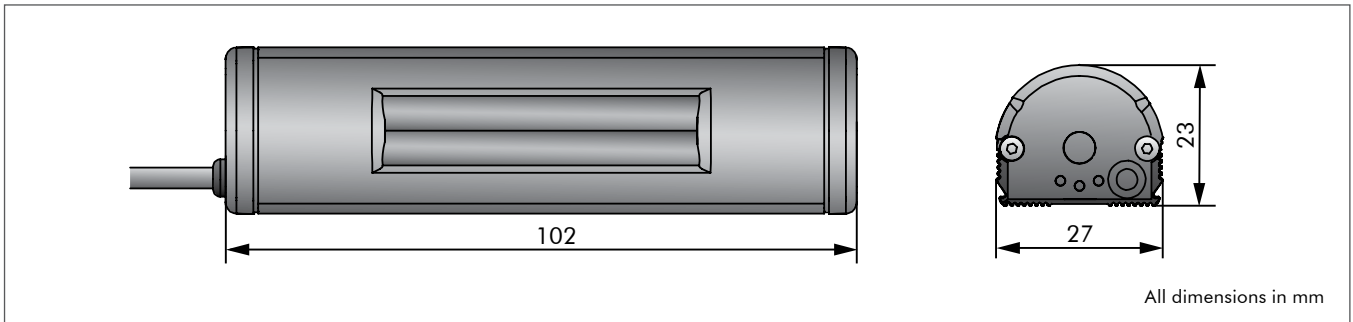
CEDES AG is certified according to ISO 9001: 2008.

### 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

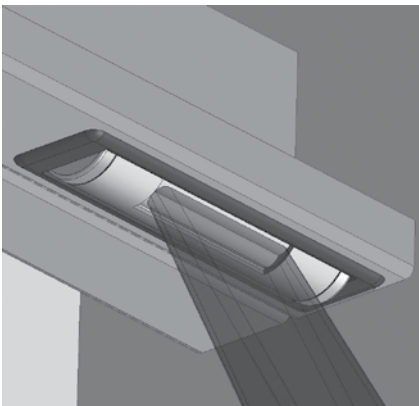


## Dimensions



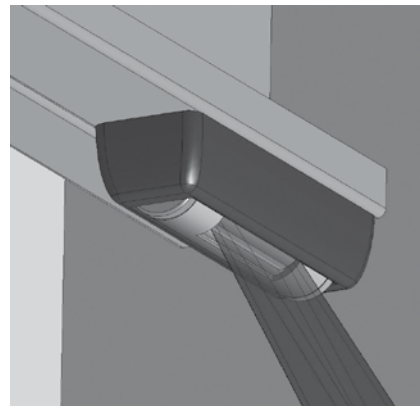
## Mounting information

### Flush mounting details



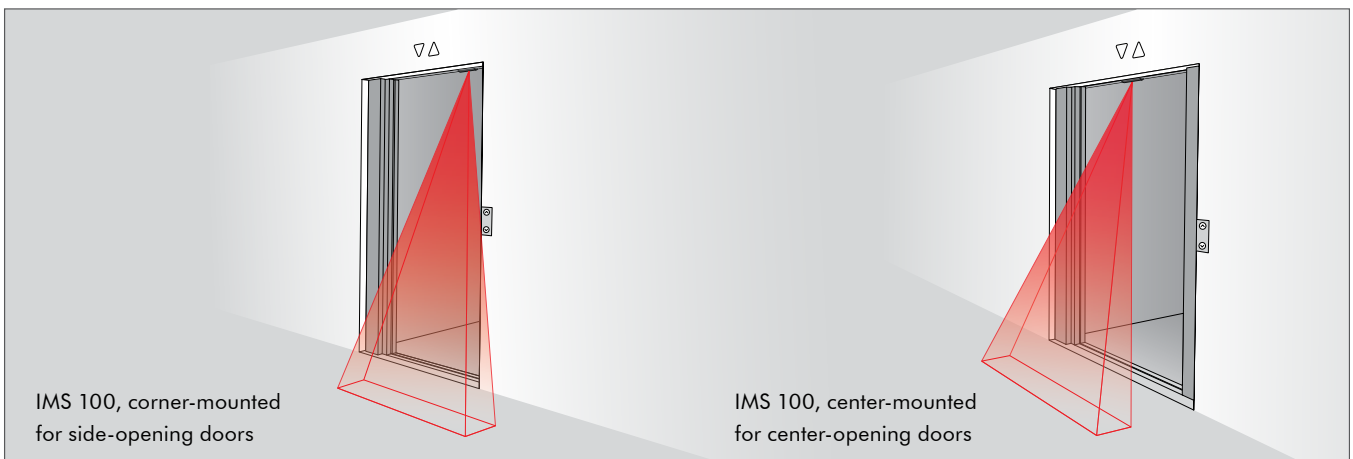
- Required space behind transom:  
125 × 29 × 20 mm (at 30° angle of rotation)
- Required space on transom:  
132 × 34 × 6.5 mm
- Required cut in transom: 112 mm × 29 mm
- Fixation: Two clips

### Surface mounting details



- Required space on transom:  
140 × 40 × 30.5 mm
- Fixation: Two screws

## Applications



IMS 100, corner-mounted  
for side-opening doors

IMS 100, center-mounted  
for center-opening doors

**CEDES**  
More than you expect!

# IMS 100

## Ordering information

### Complete set

#### IMS 100 Modernization kit

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**Part No.**

108 175

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**Description**

- IMS 100 sensor, PNP output
- Connection cable
- Mounting bracket for flush and surface mounting
- Mounting box for surface mounting
- Shipping kit comprises 4 clips, 2 screws, reflective tape
- Power line converter (85 ... 265 VAC) with relay output
- Installation and Operation Manual



#### IMS 100 – Surface & flush mounting

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**Part No.**

106 833

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**Description**

- IMS 100 sensor, PNP output
- Connection cable
- Mounting bracket for flush and surface mounting
- Mounting box for flush mounting
- Shipping kit comprises 4 clips, 2 screws, reflective tape
- Installation and Operation Manual



### Single component

#### Connection cable, 2.8 m

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**Part No.**

104 153

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**Part name**

Connection cable, 2.8 m, M8 plug 4-pin, 4 wires

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#### Surface mounting box

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**Part No.**

108 176

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**Description**

Mounting box for surface mounting, w/o screws and clips



#### Mounting bracket

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**Part No.**

106 852

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**Description**

Mounting bracket for surface and flush mounting, w/o screws and clips



#### Shipping kit IMS 100

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**Part No.**

108 177

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**Description**

- 4 × mounting clips,
- 2 × ST 3,5 x 9,5 cross recess countersunk tapite screws
- reflective tape



# IMS 100

## Ordering information

### Accessories

#### Extension cable, 3 m

Part No.	Part name
104 195	Extension cable, 3 m, M8 plug 4-pin, male-female



#### Power line converter

Part No.
106 666

#### Description

85 ... 265 VAC, for 24 V sensors with up to 250 mA current consumption

Changes the semiconductor output into relay output



#### Relay module

Part No.
103 602

#### Description

Changes the semiconductor output into relay output

