

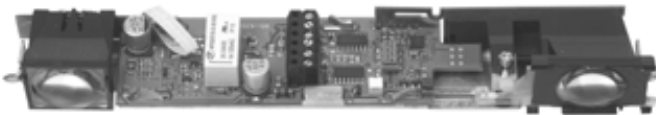
## AIR 16-S MASTER

Sensor module

# AIR 16-S MASTER



- ◆ Sensor module for configurable TopScan-S
- ◆ Certified as cat. 2 in accordance with DIN 18650
- ◆ Master module



**General specifications**

Detection range min.	0 ... 1500 mm
Detection range max.	0 ... 2500 mm
Light source	IRED
Black/White difference (6 %/90 %)	< 2 % at 2000 mm sensor range
Operating mode	Background evaluation
Diameter of the light spot	3 cm x 8 cm at 2000 mm sensor range

**Indicators/operating means**

Function display	LED red/green
Controls	sensing range adjuster

**Electrical specifications**

Operating voltage $U_B$	24 V DC +/- 20 %
No-load supply current $I_0$	65 mA

**Input**

Test input	active at U = 11 V DC at 30 V DC inactive at U = -3 V DC at 5 V DC
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**Output**

Switching type	Relay deenergized at object inside the scanning range
Signal output	Relay, 1 alternator
Switching voltage	≤ 250 V AC/DC
Switching current	≤ 1 A
Response time	≤ 70 ms

**Ambient conditions**

Ambient temperature	-10 ... 50 °C (14 ... 122 °F)
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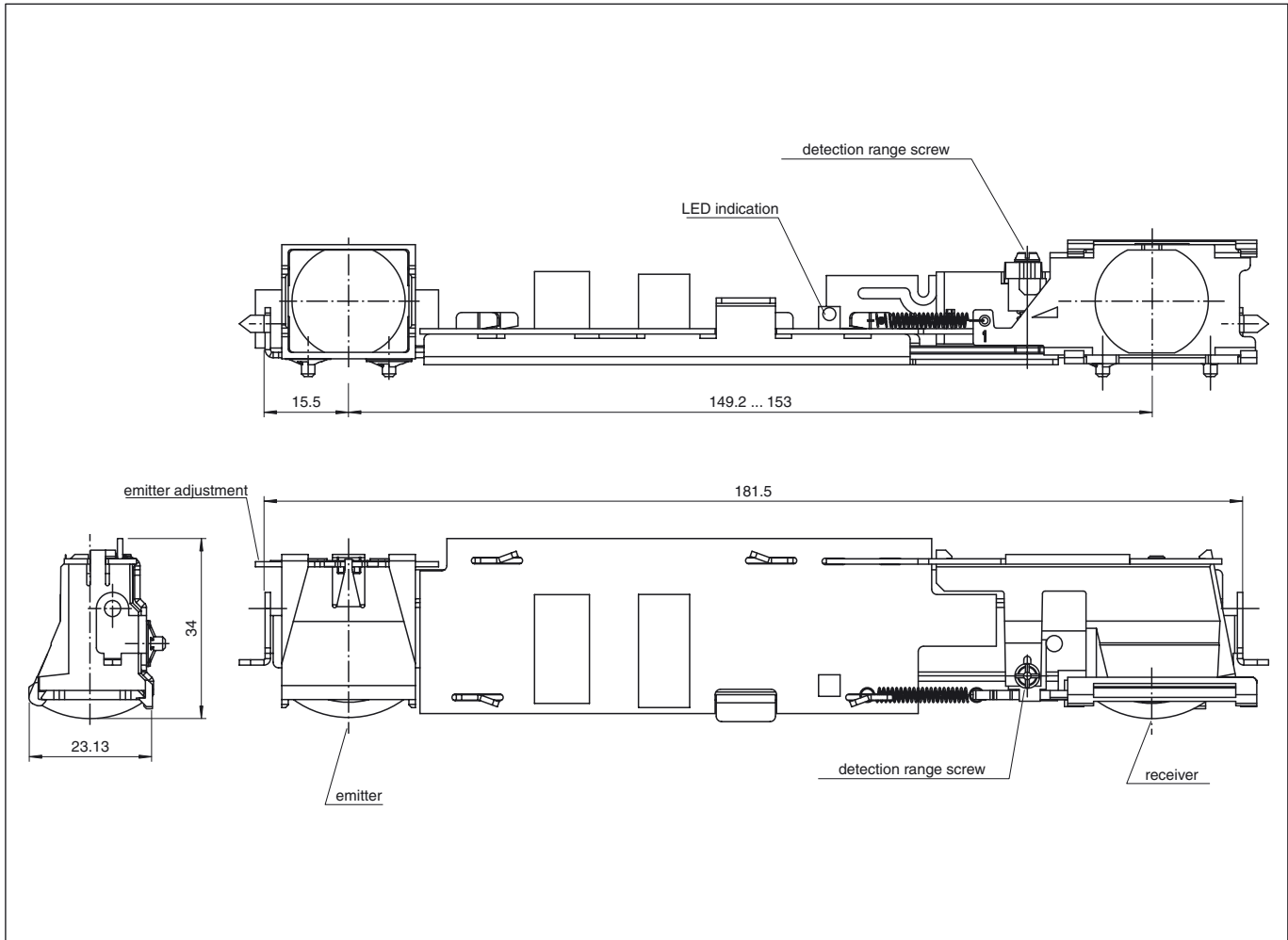
**Mechanical specifications**

Mounting height	max. 2500 mm
Note	Safety fuse ≤ 1 A (slow-blow) according to IEC 60127-2 Sheet 1 -- Recommendation: after a short circuit, check that the device is functioning correctly.

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## Dimensions



## Electrical connection

Pin	Assignment
1	GND (0V)
2	UB +24 V DC $\pm$ 20 %
3	Relay - center contact
4	Relay break contact
5	Relay make contact
6	Test input

**Explanation:**  
**Relay:**  
 Relay is inactive during detection  
 Relay is active in free detection field

**Test input:**  
 Test input is inactive at: U<sub>low</sub> = -3 V ... +5 V DC  
 Test input is active at: U<sub>high</sub> = +11 V ... +30 V DC

o = Light on, • = Dark on

## Design of the device

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