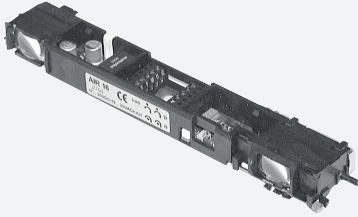
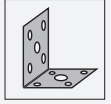


# Sensor module AIR16 Module

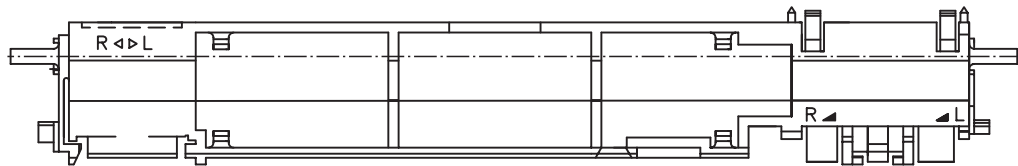
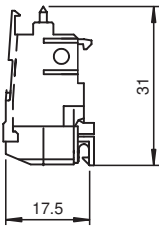
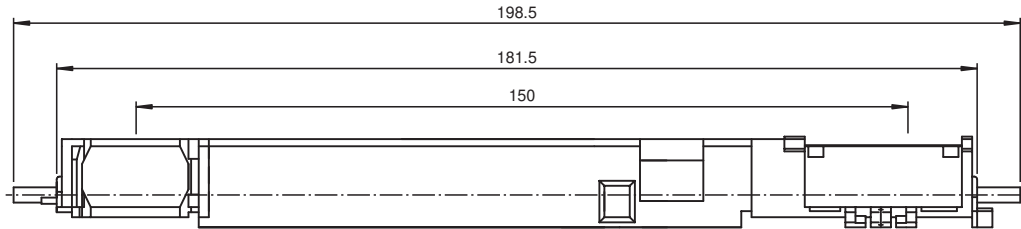


- Sensor module for configurable Topscan switch

Sensor module



## Dimensions



## Technical Data

### General specifications

Detection range min.	0 ... 1500 mm by background evaluation, 500 ... 1500 mm by background suppression
Detection range max.	0 ... 2500 mm with background evaluation, 500 ... 2500 mm with background suppression
Light source	IRED
Black-white difference (6 %/90 %)	< 20 % at 2000 mm sensor range
Marking	CE
Operating mode	switching between background suppression/evaluation
Diameter of the light spot	75 x 75 mm by sensing range 2000 mm

### Functional safety related parameters

MTTF <sub>d</sub>	880 a
Mission Time (T <sub>M</sub> )	20 a

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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## Technical Data

Diagnostic Coverage (DC)	60 %	
<b>Indicators/operating means</b>		
Function indicator	LED red	
Control elements	Sensing range adjuster, light-on/dark-on changeover switch, changeover switch for mode of operation Background suppression / Background evaluation ; Adjuster for edge monitoring left/right	
<b>Electrical specifications</b>		
Operating voltage	$U_B$	17 ... 30 V DC , 18 ... 28 V AC
No-load supply current	$I_0$	< 100 mA
<b>Output</b>		
Switching type	Light-on/dark-on changeover switch	
Signal output	Relay, 1 alternator	
Switching voltage	max. 24 V DC , 48 V AC	
Switching current	$\leq 1$ A	
Switching power	24 W / 55 VA	
Response time	30 ms , 2 s after test	
<b>Compliance with standards and directives</b>		
Directive conformity		
EMC Directive 2004/108/EC	EN 61000-6-2:2005 EN 61000-6-3:2007	
Standard conformity		
Standards	EN 62471:2008	
<b>Approvals and certificates</b>		
CCC approval	CCC approval / marking not required for products rated $\leq 36$ V	
UN/ECE Regulation No. 10 (E1)	Type-approval number: 047349	
<b>Ambient conditions</b>		
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)	
<b>Mechanical specifications</b>		
Connection	screw terminals	
<b>Suitable series</b>		
Series	TopScan	

## Accessories

	<b>LAGERBOCK AIR16</b>	Pedestal for the sensor module AIR16
	<b>TopScan-S Cap Set</b>	End cover for TopScan-S aluminum profile section
	<b>TopScan-S Cable Loop Basic</b>	Metal cable protector
	<b>TopScan-S Cable 240 mm</b>	Ribbon cable for connecting sensor modules
	<b>TopScan2 Cable 300 mm</b>	Ribbon cable for connecting sensor modules
	<b>TopScan-S Cover L1400</b>	Housing cover TopScan-S
	<b>TopScan-S Gasket IP54</b>	Housing seal TopScan-S
	<b>TopScan-S Profile L1400</b>	Housing profile TopScan-S

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