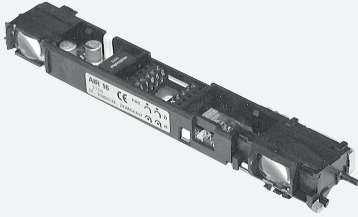
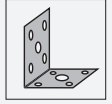


Sensor module AIR16 Module

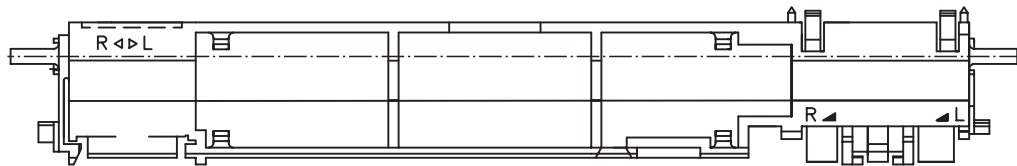
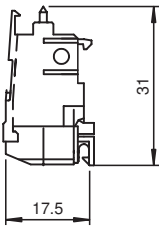
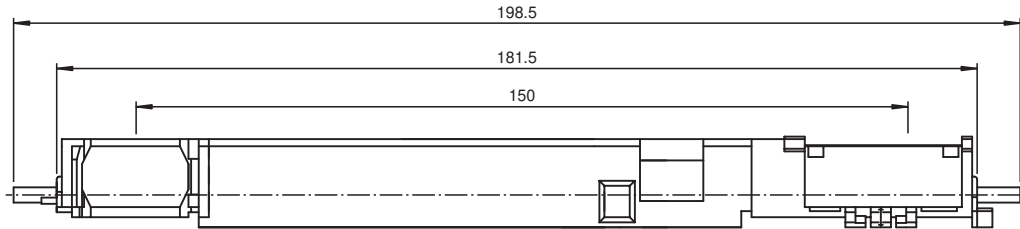


- Sensor module for configurable Topscan switch

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 _d	880 a
Mission Time (T _M)	20 a

Technical Data

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

Accessories

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