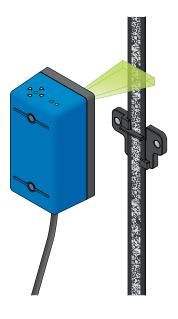


APS C-Series one — Absolute Positioning System

Technical data

FEATURES

- Wear-free, contactless principle
- Absolute position up to 1,500 m with a resolution of 0.5 mm
- Velocity up to 20 m/s with a resolution of 0.001 m/s
- Integrated building compression detection, no additional sensors needed
- Floor level detection using mounting clips
- Very robust system due to high light reserve
- Insensitive to dust and smoke
- > CAN, CANopen DS417, RS485 or customer-specific interfaces available
- Simple and flexible mounting



OPTICAL

OFINIOAL		
Position resolution		0.5 mm
Velocity resolution		1 mm/s
Range of velocity measurement		±0 20 m/s
Distance between APS sensor		105 mm
and APS code tape		
Readout tolerance:	Distance	±15 mm
	Left-right	±15 mm

MECHANICAL

Housing (h \times w \times d)	103.6 × 56.6 × 45.6 mm	
Enclosure rating	IP65	
Temperature range	-20°C +65°C	

ELECTRICAL

Supply voltage Usp	10.8 VDC 28.8 VDC	
Max. current consumption	100 mA	
Max. power-up inrush current	200 mA	
Termination - CAN	100 Ω (internally)	
- RS485	120 Ω (internally)	
Scanning rate	200 Hz	

CODE TAPE

Max. length 1,500 m	
Material Stainless steel body (1.4310)	
Width	19 mm
Thickness	0.6 mm (steel body 0.2 mm)

CONNECTION CABLE AND ELECTRICAL CONNECTION

Length	0.5 5 m (customer specific lengths on request)		
Connector	RJ45		
	CAN	RS485	
1 – blue	CAN Channel 1 LOW	RS485 Channel 1 A	
2 – grey	CAN Channel 1 HIGH	RS485 Channel 1 B	
3 – green	GND (0 V)	GND (0 V)	
4 – white	Usp	Usp	
5 – N/A	Not connected	Not connected	
6 – N/A	Not connected	Not connected	
7 – brown	No function	No function	
8 – yellow	No function	GND SEC	

GENERAL

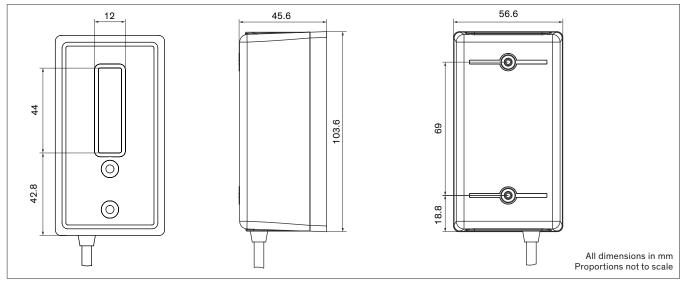
EMC emission	EN 12015:2014	
EMC immunity	EN 12016:2013	
Vibration	IEC 60068-2-6:2007	
Shock	IEC 60068-2-27:2008	
RoHS	2011/65/EU	
Certificate	CE	



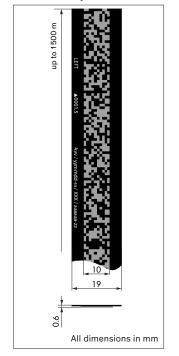
CEDES AG is certified according to ISO 9001: 2015.



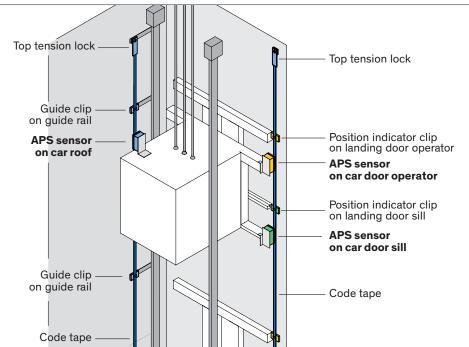
APS Sensor dimensions



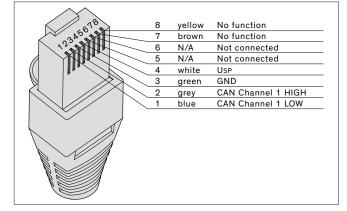
APS code tape dimensions



Mounting position examples



RJ45 plug connections (CAN interface)



RJ45 plug connections (RS485 interface)

