Sensors, Series SM6-AL

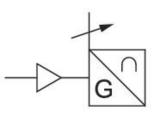
R412010901

General series information

AVENTICS Series SM6-AL Distance measuring sensors

The AVENTICS Series SM6-AL are analog distance measuring sensors, which ensure a continuous detection of the piston movements in measuring ranges from 107 mm up to 1007 mm. A control element on the sensor allows for setting of the zero point and variable selection of the distance measurement range.





Technical data

Industry Indirect mounting for series

	ITS	
	RTC	
	CVI	
Electrical connection	Plug	
Cable	with cable	
Cable length	0.3 m	
Quiescent current (without load)	< 35 mA	
Repetitive precision max. measuring range	typ. 0,06 % FSR	
Maximum load (analog current output)	500 Ω	
Output signal	0 - 10 V DC, 4 - 20 mA	
Residual ripple	≤ 10 %	
sampling interval	1,15 ms	
Certificates	cULus	

Industrial

PRA



Protection class	IP65 IP67
Min. ambient temperature	-20 °C
Max. ambient temperature	70 °C
max. measuring range	863 mm
Max. measuring range resolution	typ. 0,03 % FSR
Linearity deviation	0,5 mm
Shock resistance	30 g / 11 ms
Vibration resistance	10 - 55 Hz, 1 mm
Display	2 LED
Material	
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Housing material	Aluminum
Part No.	R412010901

Technical information

Holders for cylinder series PRA are included in the scope of delivery. For cylinder series ITS, please order the appropriate holders separately.

FSR: Full Scale Range, max. measurement range

The IO-Link device description (IODD) for the SM6-AL distance measuring sensor is available for download in the Media Centre.

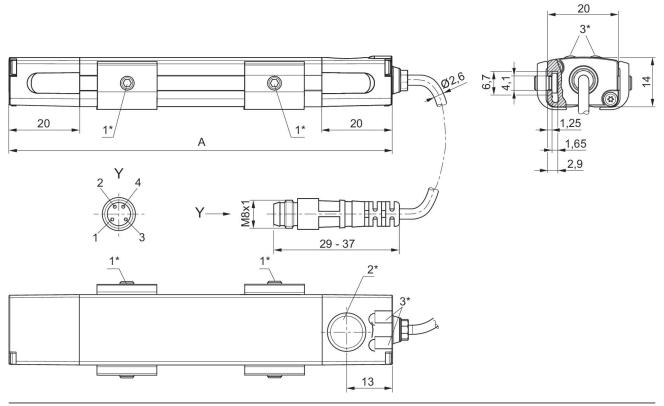
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



Dimensions



1* = threaded pin M3x11 2* = teach area 3* = LED A = sensor length Pin assignment: 1 = (+), 2 = (OUT 1) 3 = (GND), 4 = (OUT 2/IO-Link), EN 60947-5-7 LED 1: yellow = measuring operation, red = error LED 2: green = voltage signal, blue = current signal

