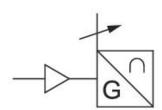
# Sensors, Series SM6-AL

R412010900

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 Industrial Indirect mounting for series PRA

ITS RTC CVI Plug

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

Output signal 0 - 10 V DC, 4 - 20 mA

Residual ripple ≤ 10 % sampling interval 1,15 ms
Certificates cULus



Protection class IP65

Min. ambient temperature -20 °C

Max. ambient temperature 70 °C

max. measuring range 827 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**

Housing material Aluminum
Part No. R412010900

#### **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.

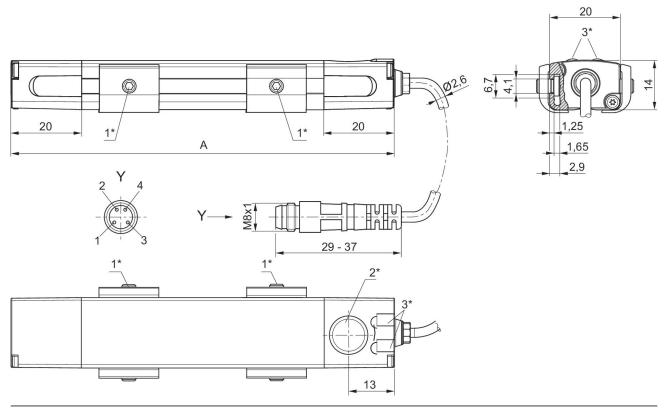
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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

