Sensors, Series SM6
R412010410

General series information
AVENTICS Series SM6 Distance measuring sensors

The AVENTICS Series SM6 are analog distance measuring sensors, which ensure a continuous detection of the piston movements in measuring ranges from 32 mm up to 256 mm. A control element on the sensor allows for setting of the zero point and variable selection of the distance measurement range. The compact sensors are also easy to mount – either directly in the cylinder slot or to the profile using clamp mountings.

Technical data

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Slot width: 6 mm groove
Electrical connection: Plug
Cable: with cable
Cable length: 0.3 m
Quiescent current (without load): < 25 mA
Repetitive precision max. measuring range: 0.1 mm
Output signal: 0 - 10 V DC, 4 - 20 mA
sampling interval: 1 ms
Certificates: cULus
Protection class: IP67
Min. ambient temperature: -20 °C
Max. ambient temperature 70 °C
max. measuring range 160 mm
LED status display Yellow
Max. measuring range resolution 0,05 mm
Linearity deviation 0,3 mm
Sampling speed 3 m/s
Shock resistance 30 g / 11 ms
Vibration resistance 10 - 55 Hz, 1 mm
Display LED

Material
Housing material Polyamide fiber-glass reinforced
Part No. R412010410

Technical information
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* = LED 2* = teach button 3* = threaded pin M3x11
L = cable length
Pin assignment: 1 = (+), 2 = (OUT 1) 3 = (GND), 4 = (OUT 2), EN 60947-5-7
A = sensor length