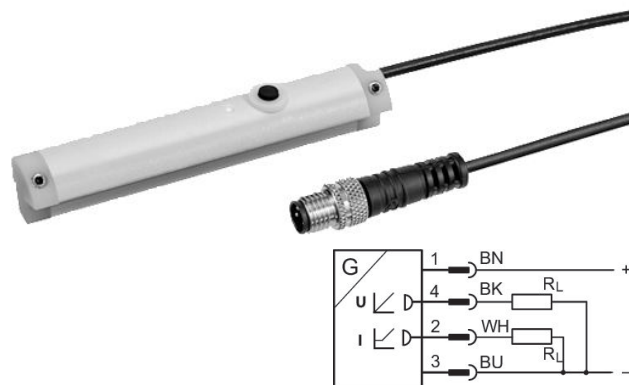


# Sensors, Series SM6

## R412010416

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

Industry

Direct mounting for series

Indirect mounting for series

Slot width

Electrical connection

Cable

Cable length

Quiescent current (without load)

Repetitive precision max. measuring range

Output signal

sampling interval

Certificates

Protection class

Min. ambient temperature

Industrial

PRA

PRE

CCI

KPZ

SSI

GPC

CVI

TRB

ITS

167

MNI

ICM

TRR

6 mm groove

Plug

with cable

0.3 m

< 25 mA

0.1 mm

0 - 10 V DC, 4 - 20 mA

1 ms

cULus

IP67

-20 °C

Max. ambient temperature	70 °C
max. measuring range	256 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.	R412010416

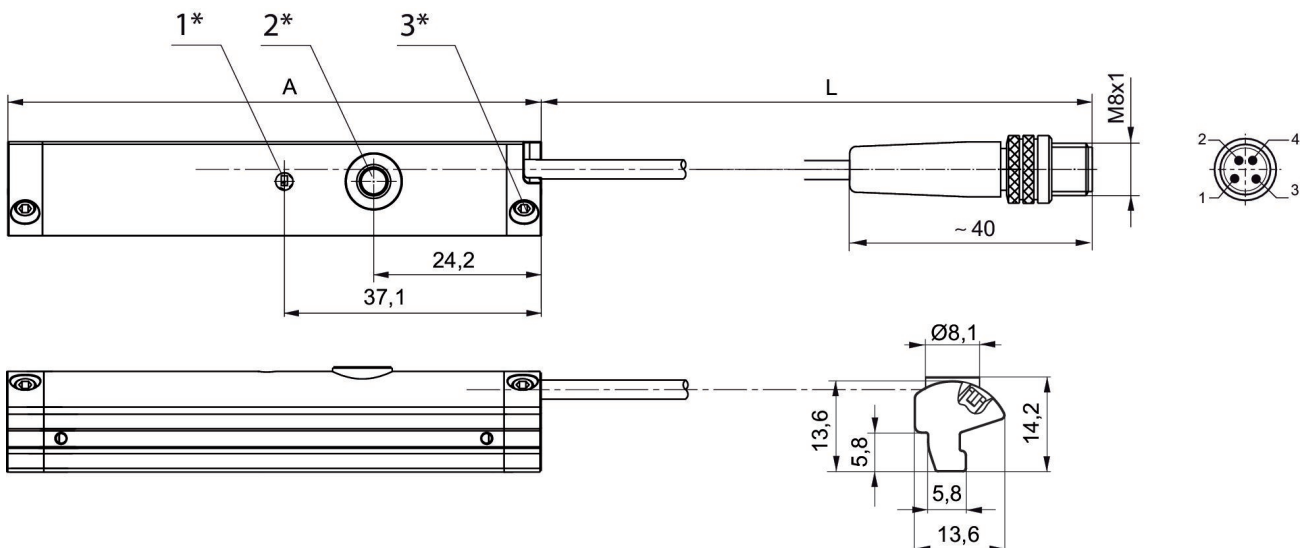
## Technical information

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