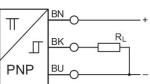
# Sensor, Series ST6

R412025610

General series information AVENTICS Series ST6 Magnetic proximity sensors

■ The AVENTICS Series ST6 sensors are suitable for mounting in the 6 mm Tslot as well as sensor mounting to the cylinder. They are suited for mounting to all AVENTICS round cylinders, tie rod cylinders, and profile cylinders. With their optimized, compact shape, the sensors can be flush-fit into existing slots and integrated into any machine environment, even with sensor mounting. Retaining ribs on the side of the sensor enable simple mounting, including in hard-to-reach locations or for overhead assembly. The durable mounting screw holds the sensor in the desired position and can withstand shocks or vibrations.





#### Technical data

Industry Industrial
Direct mounting for series CCL-IC
Slot width 6 mm T-s

Slot width 6 mm T-slot
Version 1.6 mT response sensitivity

Cable with cable

Type of contact electronic PNP

Certificates RoHS

UL (Underwriters Laboratories)

cULus
Protection class
IP65

IP67 IP69K

Min. ambient temperature -30 °C

Max. ambient temperature 80 °C

Voltage drop U at Imax ≤ 2,5 V

DC switching current, max. 0.13 A



Max. switching frequency 1000 Hz
Switching point precision ±0,1 mT

Switching logic NO (make contact)

LED status display

Yellow
Yellow

Electrical connection 2, type Plug
Electrical connection 2, thread size M8
Electrical connection 2, number of poles 3-pin
Operating voltage DC, min. 10 V DC

Operating voltage DC, max. 30 V DC

Short circuit resistance short circuit resistant

Shock resistance 30 g / 11 ms

Vibration resistance 10 - 55 Hz, 1 mm

Cable length L 0.3 m

#### Material

Housing material Polyamide

Material cable sheath Polyurethane

Material locking screw Stainless Steel

Part No. R412025610

#### **Technical information**

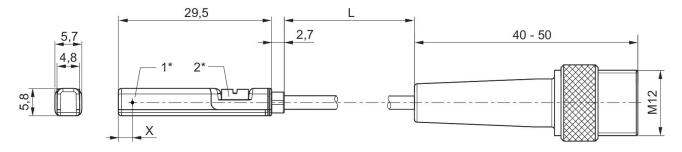
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

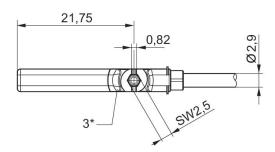
The oil content of compressed air must remain constant during the life cycle.

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).



Fig. 3

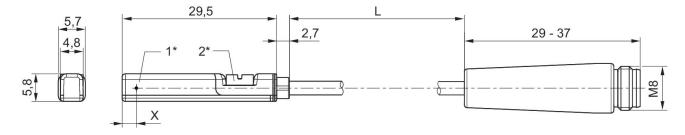


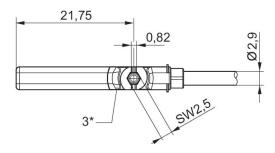


 $1^*$  = switching point  $2^*$  = locking screw  $3^*$  = LED window, transparent L = cable length

X = PNP: 11,6 mm Pin assignment: 1 = (+) 3 = (-) 4 = (OUT)

Fig. 2



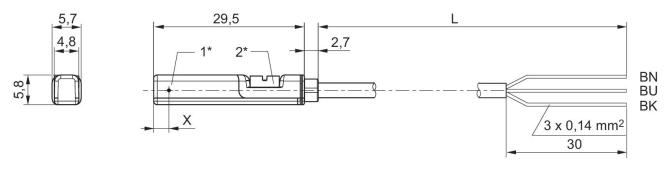


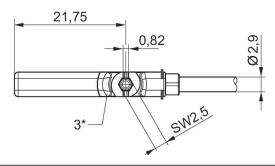
 $1^*$  = switching point  $2^*$  = locking screw  $3^*$  = LED window, transparent L = cable length

X = electronic: 11.6 mm Pin assignment: 1 = (+) 3 = (-) 4 = (OUT)



Fig. 1

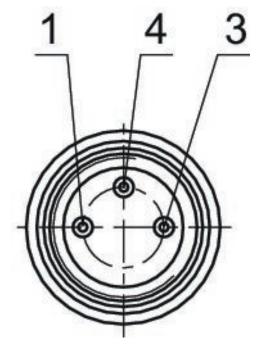




1\* = switching point 2\* = locking screw 3\* = LED window, transparent L = cable length BN = brown BK = black BU = blue X = electronic: 11.6 mm



## Pin assignment M8x1 (3-pin)



### Pin assignments

0		
	Pin	Allocation
	1	(+)
	3	(-)
	4	(OUT)

