

Sensors, Series ST6, open cable ends, 2-pin, Reed, ATEX

R412027175

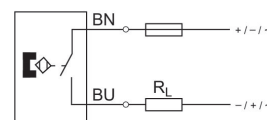
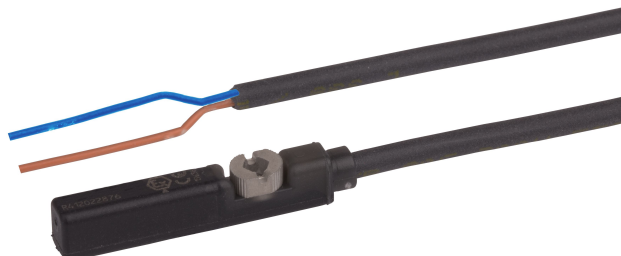
Series ST6

2024-11-26

- Universal sensors for the standardized 6 mm nut
- Mounting from above in the nut ("drop-in" mounting)
- Wide range of versions with different line lengths and connections
- Combined mounting screw with hexagon socket and slotted screw
- ATEX versions available
- High and low temperature versions available

AVENTICS Series ST6 Magnetic proximity sensors

The AVENTICS Series ST6 sensors are suitable for mounting in the 6 mm T-slot 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

Direct mounting for series

Indirect mounting for series

Slot width

Cable

Switch descr.

Min. operating voltage DC

Industrial

PRA

PRE

CCI

KPZ

SSI

GPC

CVI

TRB

ITS

CCL-IS

MNI

CSL-RD

RPC

ICS-D2

ICM

KHZ

TRR

6 mm T-slot

with cable

Reed

5 V DC

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Max. operating voltage DC	30 V DC
Min. operating voltage AC	5 V AC
Max. operational voltage AC	30 V AC
Certificates	ATEX CE declaration of conformity RoHS
Protection class	IP67
Min. ambient temperature	-20 °C
Max. ambient temperature	60 °C
Max. switching frequency	400 Hz
Electrical connection 2, type	open cable ends
Electrical connection 2, number of poles	2-pin
Shock resistance	30 g / 11 ms
Vibration resistance	10 - 55 Hz, 1 mm
Cable length L	5 m

Material

Housing material	Polyamide fiber-glass reinforced
Material cable sheath	Polyurethane
Material locking screw	Stainless Steel
Part No.	R412027175

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>).

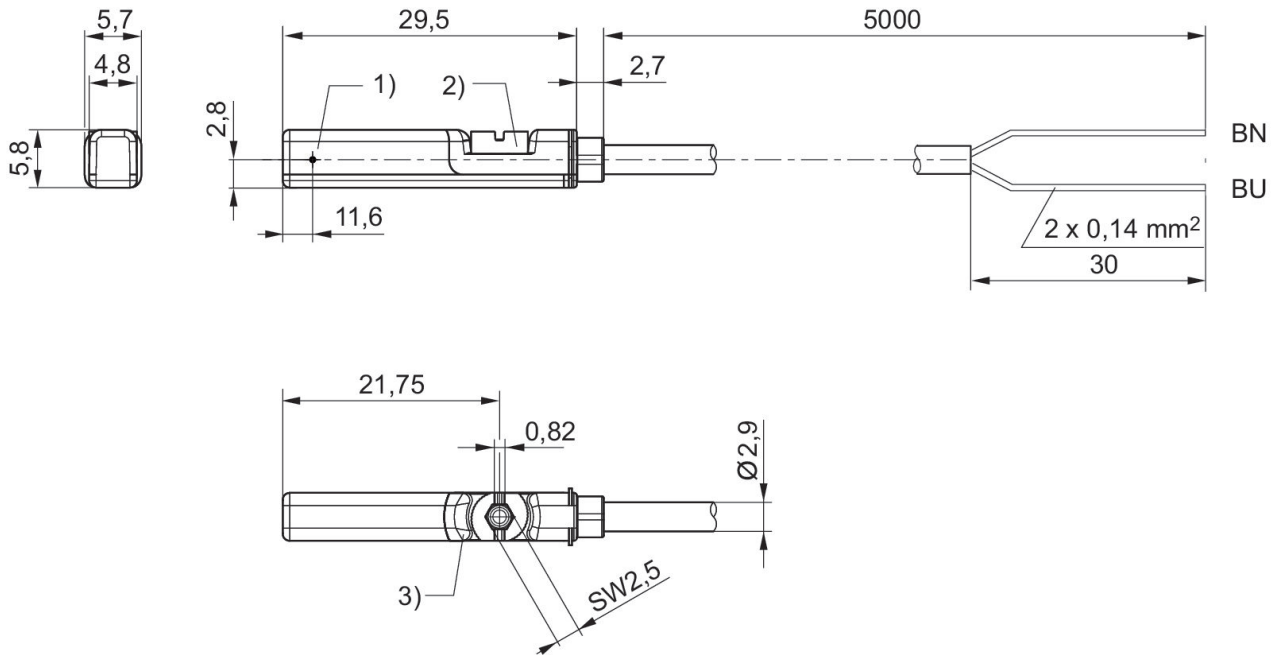
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Dimensions in mm



- 1) Switching point
 - 2) Locking screw
 - 3) LED window, transparent
- BN = brown, BU = blue