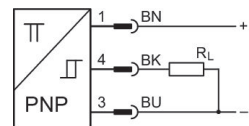


AVENTICS Series ST6 Magnetic proximity sensors

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.

- 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



Technical data

Industry	Industrial
Slot width	6 mm T-slot
Cable	with cable
Switch descr.	PNP
Min. operating voltage DC	10 V DC
Max. operating voltage DC	30 V DC
Quiescent current (without load)	< 10 mA
Certificates	ATEX CE declaration of conformity cULus RoHS UL (Underwriters Laboratories)
ATEX ID	ATEX
ATEX class G	II 3G Ex nA IIC T4 Gc X
ATEX class D	II 3D Ex tc IIIC T135°C Dc X
Protection class	IP67
Min. ambient temperature	-20 °C
Max. ambient temperature	50 °C
Voltage drop U at I _{max}	≤ 2,5 V

Max. DC switching current	0.1 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	M12x1
Electrical connection 2, number of poles	3-pin
Short circuit resistance	short circuit resistant Protected against polarity reversal
Shock resistance	30 g / 11 ms
Vibration resistance	10 - 55 Hz, 1 mm
Cable length L	0.3 m

Material

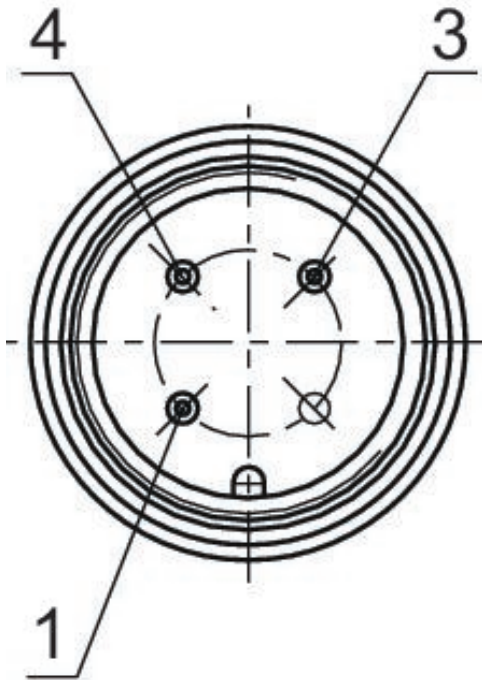
Housing material	Polyamide
Material cable sheath	Polyurethane
Material locking screw	Stainless Steel
Part No.	R412022864

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.

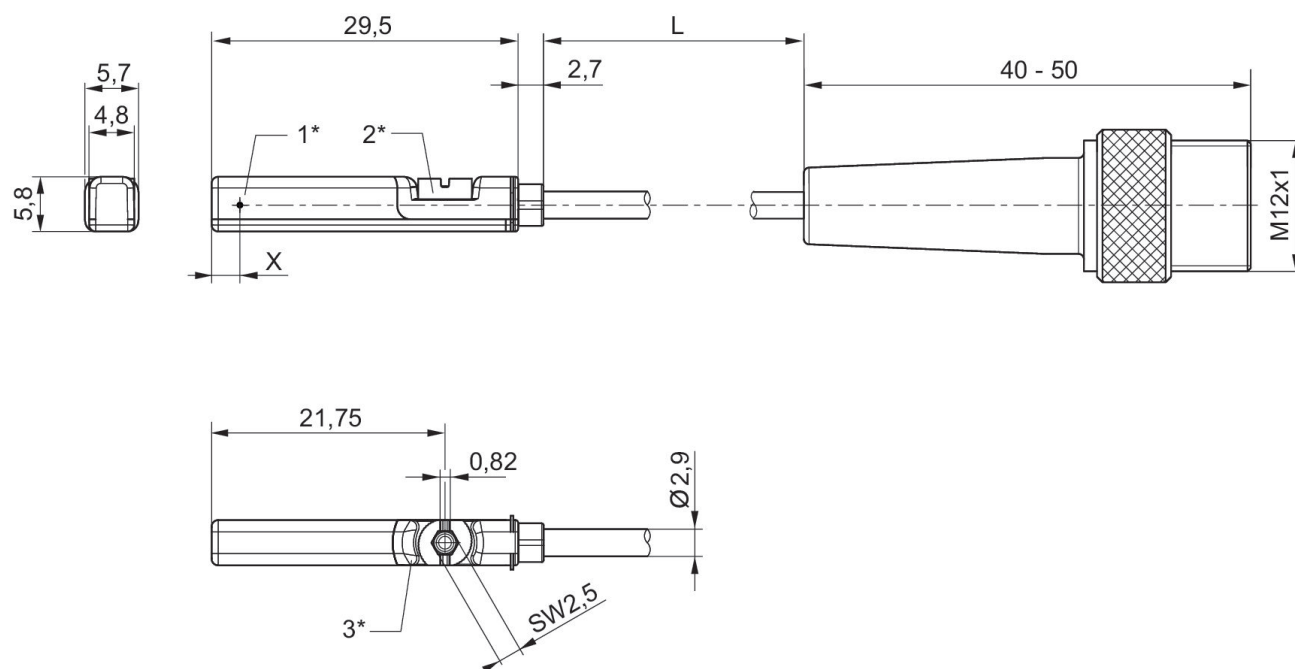
Pin assignments



Pin assignments

Pin	Allocation
1	(+)
3	(-)

Dimensions



1* = switching point 2* = locking screw 3* = LED window, transparent

L = cable length

X = PNP: 11,6 mm, reed: 8,3 mm