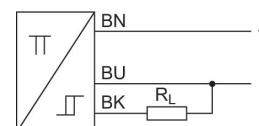


AVENTICS Series ST9 Magnetic proximity sensors

The AVENTICS Series ST9 sensors are specifically developed for short-stroke cylinders and offer a lean design and practical handling. They slide easily into the 9 mm dovetail nut and can be securely fastened with a single screw. Especially with extremely short cylinders, the electrical connection located at the side of the housing enables easy tightening and removal of the lines.



Technical data

Industry	Industrial
Direct mounting for series	KHZ
Slot width	9 mm groove
Sensor	With stretched impulse
Cable	with cable
Type of contact	electronic PNP
Nominal current, actuated state	< 7 mA
Quiescent current (without load)	< 3 mA
Protection class	IP67 IP65
Min. ambient temperature	-10 °C
Max. ambient temperature	70 °C
Voltage drop U at I _{max}	≤ 2,0 V
Max. DC switching current	0.2 A
Max. switching frequency	2000 Hz
Switching point precision	±0,1 mT
LED status display	Yellow
Electrical connection 2, type	without wire end ferrule, tin-plated
Electrical connection 2, number of poles	3-pin
Min. operating voltage DC	12 V DC
Max. operating voltage DC	36 V DC
Short circuit resistance	short circuit resistant

Sensor, Series ST9

0830100387

Sensors,
Series ST9

2023-10-19

Shock resistance	Protected against polarity reversal
Vibration resistance	100 g / 11 ms
Cable length L	60 g (50 ... 2000 Hz)
	3 m

Material

Housing material	epoxy resin
Material cable sheath	Polyurethane
Part No.	0830100387

Technical information

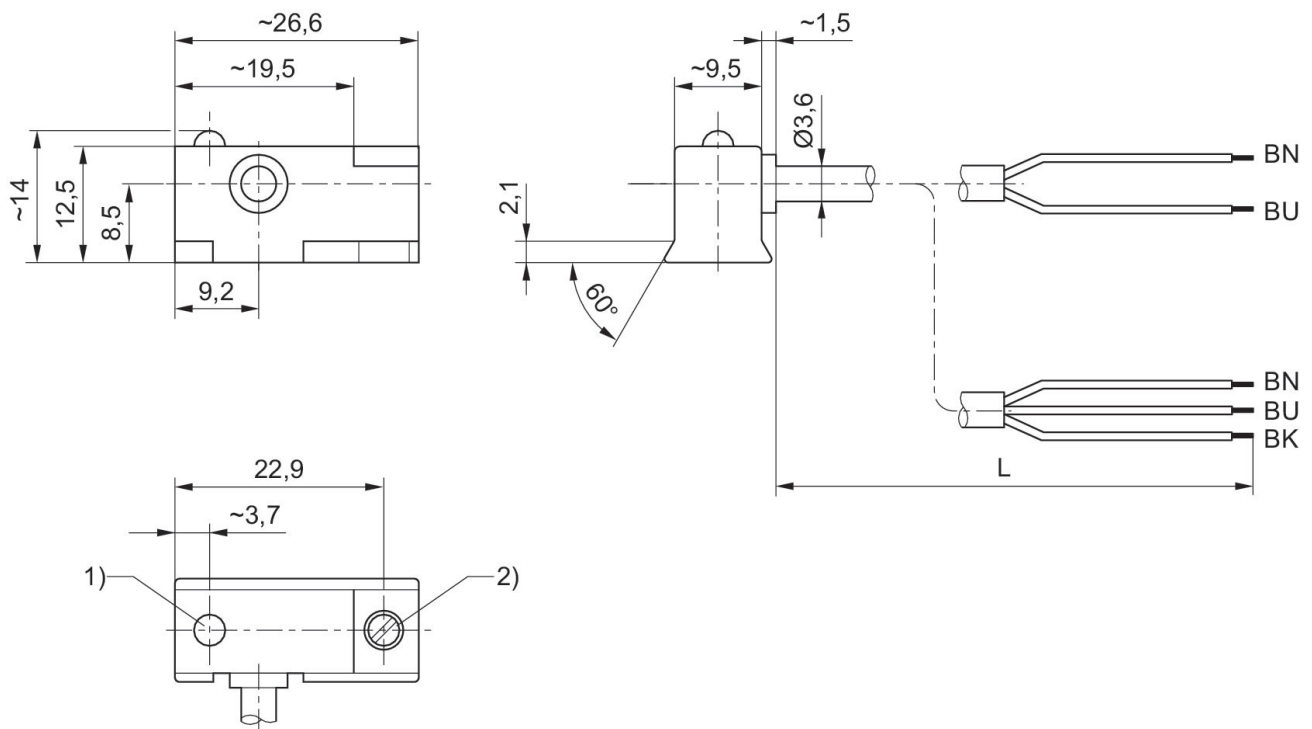
If reed sensors are used, we recommend using a short-circuit protective device (SCPD).

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) Clamping screw
L = cable length
BN = brown BK = black BU = blue