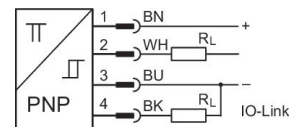


Sensors, Series ST4-2P

The AVENTICS Series ST4-2P sensors make it possible to measure any two switching points in a 50 mm range using just one sensor in a 4 mm C-slot. As a result, there is no need to install a second sensor, making the process easier, faster and more precise. Assembly and cabling effort are also halved. A serial interface is provided for diagnosis and configuration.

- Suitable for 4 mm C-nut
- Mounting from above in the nut ("drop-in" mounting)
- Robust housing
- LED for indicating the output state
- Combined mounting screw with hexagon socket and slotted screw
- Precise, reliable and flexible



Technical data

Industry

Direct mounting for series

Indirect mounting for series

Slot width

Version

number of switching points

Cable

Switch descr.

Min. operating voltage DC

Max. operating voltage DC

Output signal digital

Hysteresis

Certificates

Protection class

Min. ambient temperature

Industrial

PRA

SSI

RTC

GPC

MSC

MSN

RCM

CVI

MNI

CSL-RD

ICM

4 mm C-slot

IO-Link

2 switching points
with fixed tolerance levels

2

with cable

electronic PNP

12 V DC

30 V DC

IO-Link

1 mT

RoHS

IP67

-20 °C

Max. ambient temperature	75 °C
Max. detection range	50 mm
Voltage drop U at I _{max}	≤ 2,2 V
Switching logic	NO (make contact)
Display	2 LED
LED status display	Yellow
Electrical connection 2, type	Plug
Electrical connection 2, thread size	M8x1
Electrical connection 2, number of poles	4-pin
Short circuit resistance	Wire break protection Short circuit resistance Reverse polarity protection Switch-on pulse suppression
Shock resistance	30 g / 11 ms
Vibration resistance	10 - 55 Hz, 1 mm
Cable length L	0.3 m
Mounting screw	with hexagon socket

Material

Housing material	Polyamide
Material cable sheath	Polyurethane
Part No.	R412025689

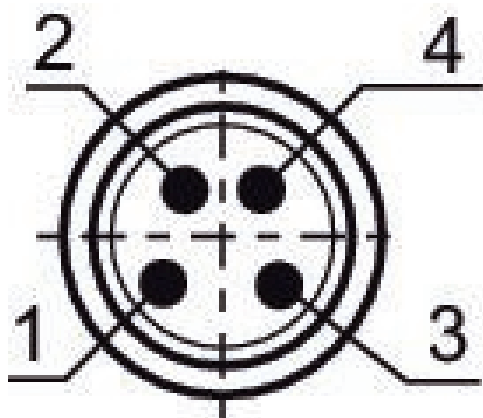
Technical information

The IO-Link device description (IODD) for the ST4-2P proximity sensor is available for download in the Media Centre.

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.

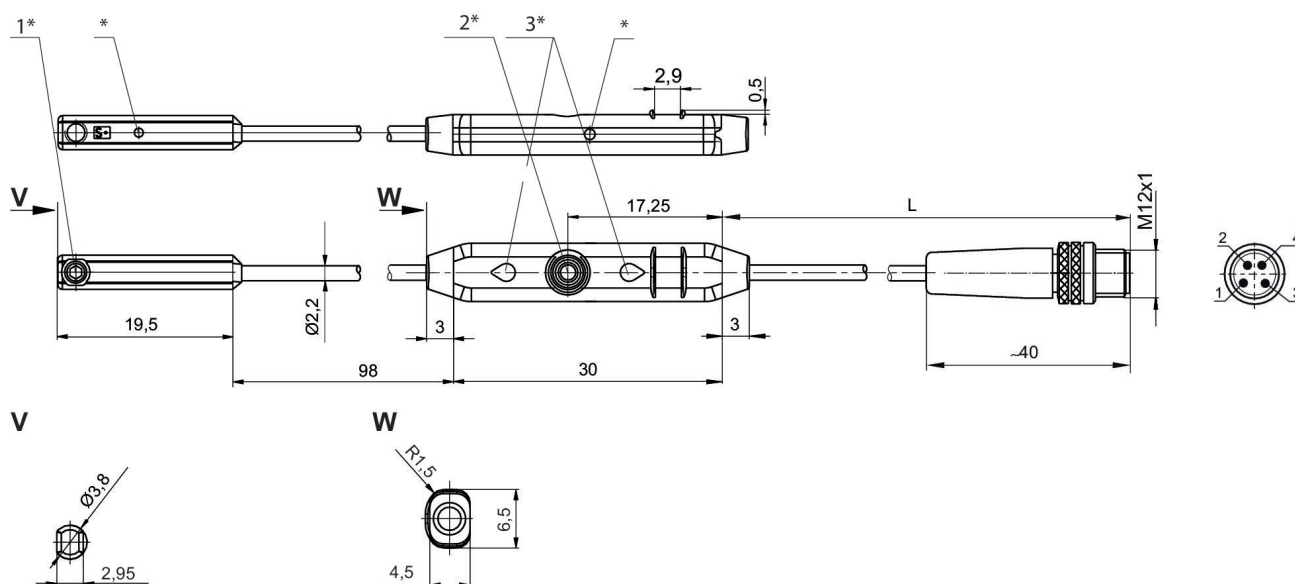
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).



Pin assignments

Pin	Allocation
1	(+)
2	(OUT)
3	(-)

Dimensions



1* = mounting screw 2* = teach button 3* = LED

L = cable length

PIN assignment: 1 = (+), 2 = (OUT), 3 = (-), 4 = (OUT) IO-Link

* Switching point