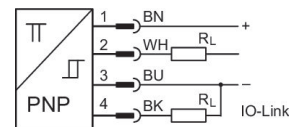


# Sensors, Series ST4-2P, with cable, plug M12x1, IO-Link

ST4-2P  
2024-10-02

R412023459

- 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



## 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.

## Technical data

Industry	Industrial
Direct mounting for series	PRA SSI RTC GPC MSC MSN RCM CVI
Indirect mounting for series	MNI CSL-RD ICM
Slot width	4 mm C-slot
Version	IO-Link 2 switching points
number of switching points	2
Cable	with cable
Switch descr.	electronic PNP
Min. operating voltage DC	12 V DC
Max. operating voltage DC	30 V DC
Output signal digital	IO-Link
Hysteresis	1 mT
Certificates	RoHS
Protection class	IP67
Min. ambient temperature	-20 °C
Max. ambient temperature	75 °C
Max. detection range	50 mm

# Sensors, Series ST4-2P, with cable, plug M12x1, IO-Link

ST4-2P  
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Voltage drop U at I <sub>max</sub>	≤ 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	M12x1
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.	R412023459

## 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.

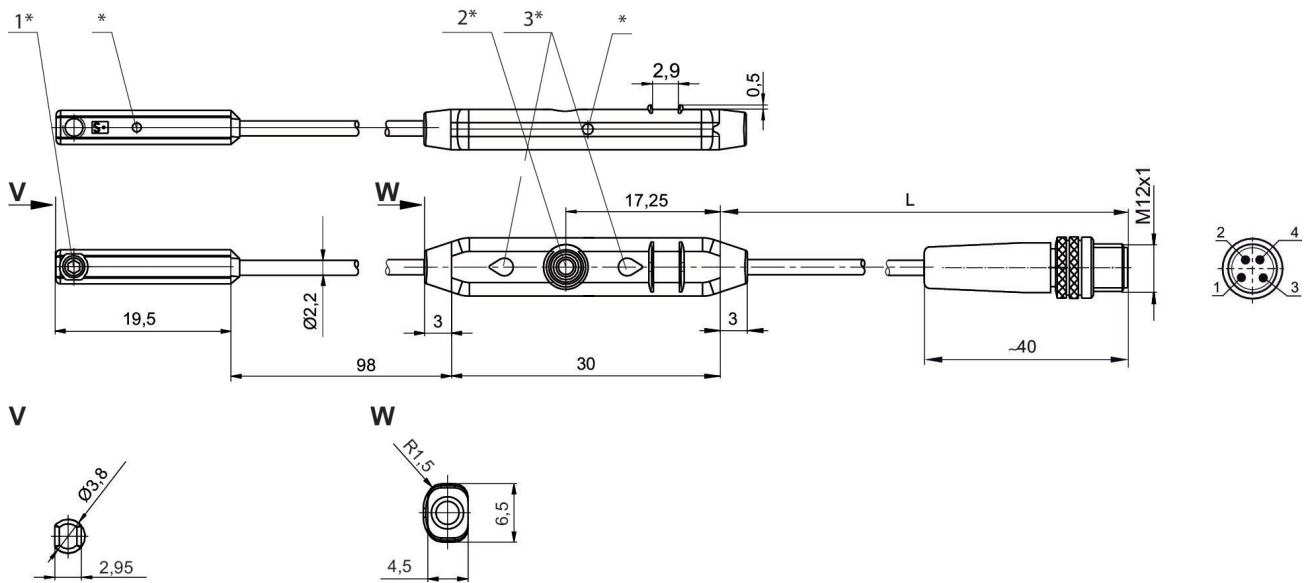
The oil content of compressed air must remain constant during the life cycle.

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>).

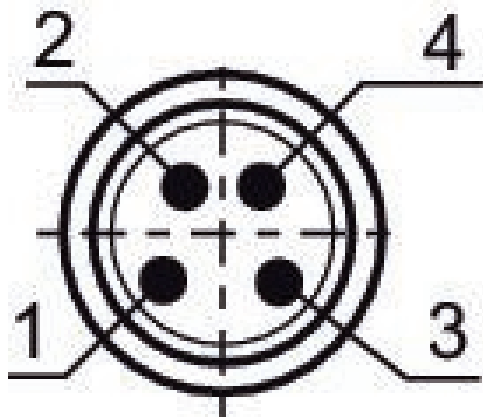
# Sensors, Series ST4-2P, with cable, plug M12x1, IO-Link

ST4-2P  
2024-10-02

R412023459  
Dimensions



1\* = mounting screw 2\* = teach button 3\* = LED  
L = cable length  
PIN assignment: 1 = (+), 2 = (OUT), 3 = (-), 4 = (OUT) IO-Link  
\* Switching point



## Pin assignments

Pin	Allocation
1	(+)
2	(OUT)
3	(-)
4	(OUT) IO-Link