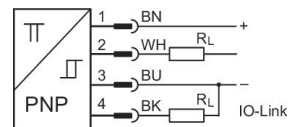# Sensors, Series ST4-2P
R412023459

AVENTICS Series ST4 Magnetic proximity sensors

The AVENTICS Series ST4 sensors can be integrated with all AVENTICS pneumatic actuators and are ideal for small handling. The Series ST4 can be assembled quickly and easily with just a quarter turn of the combination screw.

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
Type of contact	electronic PNP
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
Voltage drop U at Imax	≤ 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

Sensors, Series ST4-2P

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Electrical connection 2, number of poles	4-pin
Min. operating voltage DC	12 V DC
Max. operating voltage DC	30 V DC
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

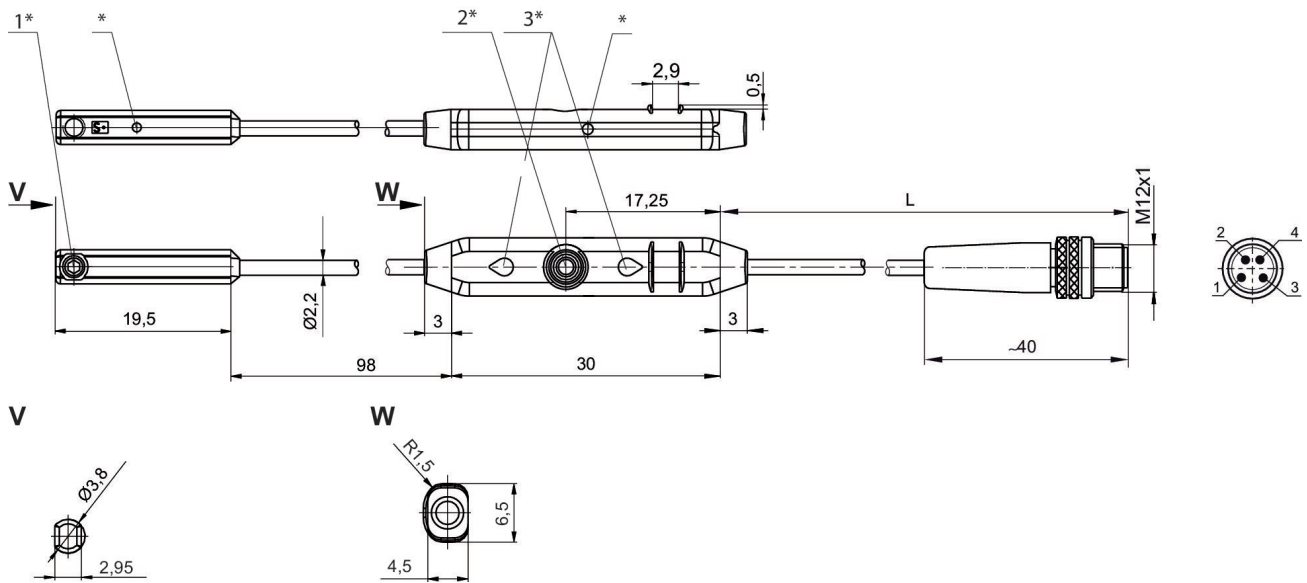|	
Housing material	Polyamide
Material cable sheath	Polyurethane
Part No.	R412023459

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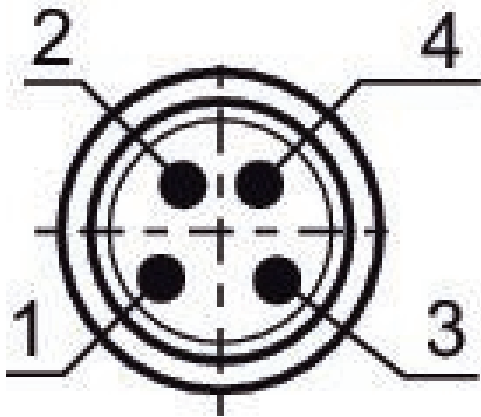
The oil content of compressed air must remain constant during the life cycle.

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).

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