ST4-2P

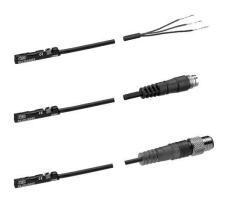




Sensors, Series ST4-2P

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.

- One sensor for two switching points
- Two switch outputs 2x PNP make contact
- Only one C-groove is assigned
- IO-Link
- · Half the effort for assembly and wiring
- Intuitive, precise programming of switching points





Product overview

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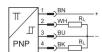


Sensors, Series ST4-2P, with cable, without wire end ferrule, tin-plated

For series: PRA SSI RTC GPC MSC MSN RCM CVI

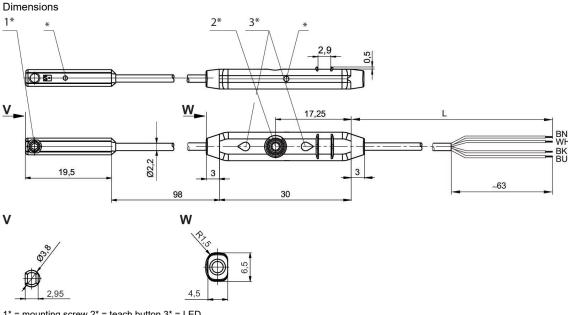
Electrical connection 2, type: without wire end ferrule, tin-plated

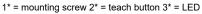
Certificates: RoHS





Direct mount- ing for series	Indirect mount- ing for series	Slot width	Switch descr.	Electrical connection number of poles	Part No.
PRA, SSI, RTC, GPC, MSC, MSN, RCM, CVI	MNI, CSL-RD, ICM	4 mm C-slot	electronic PNP	4-pin	R412010139





L = cable length



⁽²⁾ WH=white
* Switching point

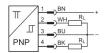
Sensors, Series ST4-2P, with cable, plug M8x1

For series: PRA SSI RTC GPC MSC MSN RCM CVI

Electrical connection 2, type: Plug Electrical connection 2, thread size: M8x1

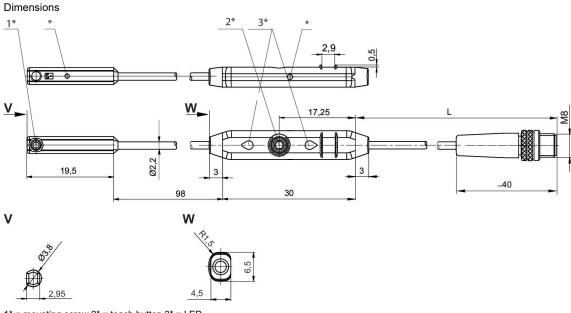
Certificates: RoHS

Electrical connection 2, number of poles: 4-pin



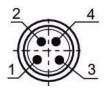


Direct mount- ing for series	Indirect mount- ing for series	Slot width	Switch descr.	Electrical con- nection size	Electrical con- nection num- ber of poles	Part No.
PRA, SSI, RTC, GPC, MSC, MSN, RCM, CVI	,	4 mm C-slot	electronic PNP	M8x1	4-pin	R412010140



- 1* = mounting screw 2* = teach button 3* = LED
- L = cable length
- * Switching point

R412010140



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



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

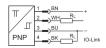
For series: PRA SSI RTC GPC MSC MSN RCM CVI

Electrical connection 2, type: Plug

Electrical connection 2, thread size: M12x1

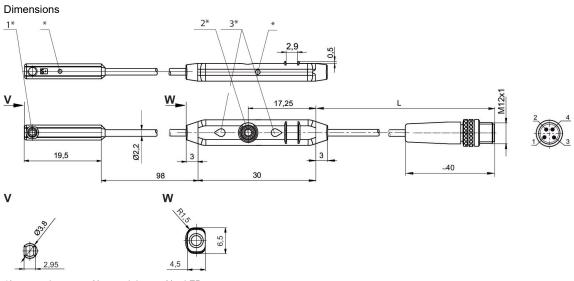
Certificates: RoHS

Electrical connection 2, number of poles: 4-pin





Direct mount- ing for series	Indirect mount- ing for series	Slot width	Switch descr.	Electrical con- nection size	Electrical con- nection num- ber of poles	Part No.
PRA, SSI, RTC, GPC, MSC, MSN, RCM, CVI		4 mm C-slot	electronic PNP	M12x1	4-pin	R412023459

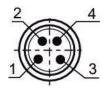


1* = mounting screw 2* = teach button 3* = LED

L = cable length

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

R412023459



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



Round plug connector, Series CON-RD, open cable ends, straight, 4-pin

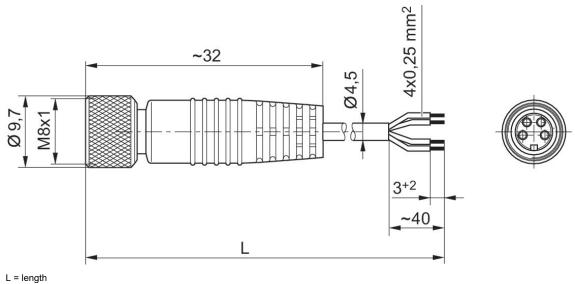
Electrical connection 1, type: Socket Electrical connection 1, thread size: M8x1 Electrical connection 1, number of poles: 4-pin





Opera- tional voltage	Current [A]	Shield- ing	Electri- cal con- nection 1, type	Elec- trical connec- tion 1, thread size	Elec- trical connec- tion 1, coding	Electri- cal con- nection 2, type	Cable length [m]	Cable-Ø [mm]	Wire cross- section [mm²]	Min. ambient temper- ature [°C]	Max. ambient temper- ature [°C]	Part No.
48 V AC/ DC	4	un- shielded	Socket	M8x1	A-coded	open ca- ble ends	3	4.5	0.25	-40	85	1834484144
48 V AC/ DC	4	un- shielded	Socket	M8x1	A-coded	open ca- ble ends	5	4.5	0.25	-40	85	1834484146

Dimensions



1834484144, 1834484146

Pin assignment, socket



(1) BN=brown (2) WH=white 3) BU=blue (4) BK=black



Round plug connector, Series CON-RD, Plug M8x1, 4-pin

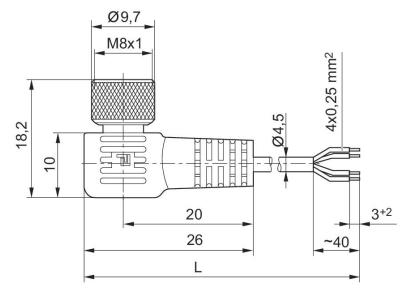
Electrical connection 1, type: Socket Electrical connection 1, thread size: M8x1 Electrical connection 1, number of poles: 4-pin

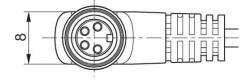




Opera- tional voltage	Current [A]	Shield- ing	Electri- cal con- nection 1, type	Elec- trical connec- tion 1, thread size	Elec- trical connec- tion 1, coding	Electri- cal con- nection 2, type	Cable length [m]	Cable-Ø [mm]	Wire cross- section [mm²]	Min. ambient temper- ature [°C]	Max. ambient temper- ature [°C]	Part No.
48 V AC/ DC	4	un- shielded	Socket	M8x1	A-coded	open ca- ble ends	3	4.5	0.25	-25	85	1834484145
48 V AC/ DC	4	un- shielded	Socket	M8x1	A-coded	open ca- ble ends	5	4.5	0.25	-25	85	1834484147

Dimensions in mm





L = length



1834484145, 1834484147

Pin assignment, socket



(1) BN=brown (2) WH=white 3) BU=blue (4) BK=black

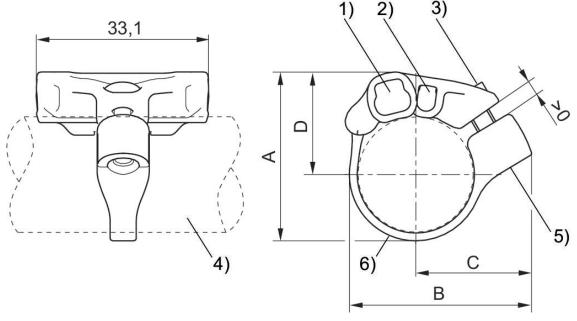


Sensor mounting, Series CB1

For series: ST4 ST6



Min. cylinder Ø [mm]	Material	Part No.
16	Polyamide, Stainless Steel	R412021791
20	Polyamide, Stainless Steel	R412021792
25	Polyamide, Stainless Steel	R412021793



1) Sensor slot for ST6 2) Sensor slot for ST4 3) Mounting screw (made of stainless steel) 4) Cylinder profile 5) Thread insert (made of stainless steel) 6) Tightening strap

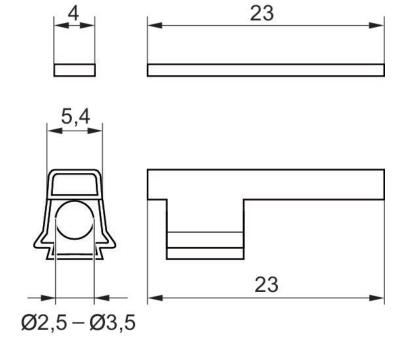
Part No.	А	В	С	О
R412021791	27.7	32.5	22.1	17.3
R412021792	32.4	35	22.4	19.7
R412021793	37.4	39.5	24.3	22.2



Name plate



Min. ambient temperature [°C]	Max. ambient temperature [°C]	Delivery unit [piece]	Housing material	Part No.
-40	100	10	Polycarbonate	R412026278





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