Sensors, Series SN2





Series SN2

The AVENTICS Series SN2 sensors are compatible with a range of cylinders. With their universal functionality and shape, the sensors of the Series SN2 are found in a variety of industries and applications. With a robust reed sensor they are designed for a wide voltage range of up to 240 VAC.

- Cubic sensor solution for universal applications
- A wide variety of sensor mountings for application needs
- With a M8-plug (2-, 3-, and 4-pin) directly on the sensor housing or free wire ends
- Service-friendly, since the line can be mounted directly on the housing
- Reed and electronic PNP sensor versions available
- Variant: pulse stretching





Sensor, Series SN2

without wire end ferrule, tin-plated

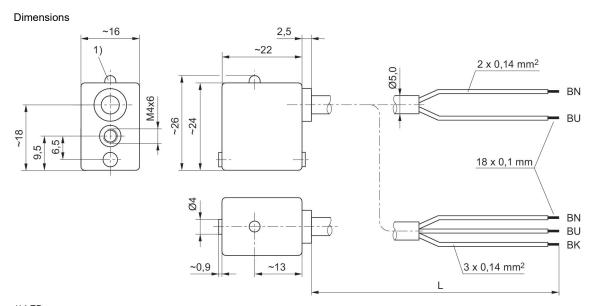


Type of contact	Cable sheath	Electrical connection number of poles	Cable length L [m]	Operating voltage DC, min. [V DC]	Operating voltage DC, max. [V DC]	Operating voltage AC, min. [V AC]	Operational voltage AC, max. [V AC]	Version	Part No.
Reed	Polyvinyl chloride	2-pin	3	0	60	0	240	Protected against po- larity rever- sal	0830100315
Reed	Polyvinyl chloride	2-pin	3	12	60	12	240	Protected against po- larity rever- sal	0830100365
Reed	Polyvinyl chloride	2-pin	3	12	60	12	240	Protected against po- larity rever- sal	0830100368
Reed	Polyurethane	2-pin	3	12	60	12	240	Protected against po- larity rever- sal	0830100370
Reed		2-pin	3	0	60	0	240	Protected against po- larity rever- sal	0830100316
Reed		2-pin	3	0	60	0	240	Protected against po- larity rever- sal	0830100373
Reed	Polyurethane	2-pin	3	12	60	12	240	Protected against po- larity rever- sal	0830100367
Reed	Thermo- plastic elas- tomer	2-pin	3	12	60	12	240	Protected against po- larity rever- sal	0830100317
Reed	Polyvinyl chloride	2-pin	5	12	60	12	240	Protected against po- larity rever- sal	0830100366
Reed	Polyvinyl chloride	2-pin	5	12	60	12	240	Protected against po- larity rever- sal	0830100369
Reed	Polyvinyl chloride	2-pin	7	12	60	12	240	Protected against po- larity rever- sal	0830100327
Reed	Polyvinyl chloride	2-pin	10	12	60	12	240	Protected against po- larity rever- sal	0830100325



Type of contact	Cable sheath	Electrical connection number of poles	Cable length L [m]	Operating voltage DC, min. [V DC]	Operating voltage DC, max. [V DC]	Operating voltage AC, min. [V AC]	Operational voltage AC, max. [V AC]	Version	Part No.
Reed	Thermo- plastic elas- tomer	2-pin	11	12	60	12	240	Protected against po- larity rever- sal	0830100326
Reed	Polyvinyl chloride	2-pin	20	12	60	12	240	Protected against po- larity rever- sal	R412004848
Reed	Polyvinyl chloride	2-pin	3	12	42	12	42	Protected against po- larity rever- sal	0830100371
Reed	Polyvinyl chloride	2-pin	5	12	42	12	42	Protected against po- larity rever- sal	0830100372
electronic PNP	Polyvinyl chloride	3-pin	3	10	30	10	30	short circuit resistant, Protected against po- larity rever- sal	0830100375
electronic PNP	Thermo- plastic elas- tomer	3-pin	3	10	30			Protected against po- larity rever- sal	0830100378
electronic PNP	Polyurethane	3-pin	3	10	30	10	30	short circuit resistant, Protected against po- larity rever- sal	0830100377
electronic PNP	Polyvinyl chloride	3-pin	5	10	30	10	30	short circuit resistant, Protected against po- larity rever- sal	0830100376





1) LED L = cable length BN = brown, BK = black, BU = blue



Sensor, Series SN2

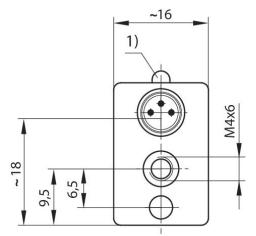
Plug M8

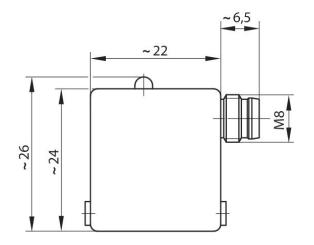


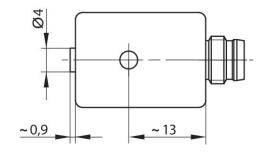
Type of contact	Electrical con- nection num- ber of poles	Operating voltage DC, min. [V DC]	Operating voltage DC, max. [V DC]	Operating voltage AC, min. [V AC]	Operational voltage AC, max. [V AC]	Version	Part No.
Reed	2-pin	12	36	12	30	Protected against polarity reversal	0830100465
Reed	2-pin	12	36	12	30	Protected against polarity reversal	0830100468
Reed	3-pin	12	36	12	30	Protected against polarity reversal	R412004299
Reed	2-pin	12	36	12	30	Protected against polarity reversal	0830100466
Reed	3-pin	12	36	12	30	Protected against polarity reversal	0830100469
Reed	3-pin	12	36	12	30	Protected against polarity reversal	R412004820
Reed	3-pin	12	36	12	30	Protected against polarity reversal	0830100472
electronic PNP	3-pin	10	30	12	30	short circuit re- sistant, Protect- ed against po- larity reversal	0830100480
electronic PNP	3-pin	10	30			short circuit re- sistant, Protect- ed against po- larity reversal	R412004800



Dimensions







1) LED M8: combination plug can be combined with valve plug connectors \varnothing 6.5 mm and M8.



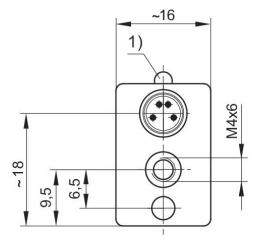
Sensor, Series SN2

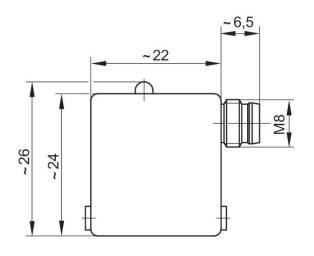
Plug M8

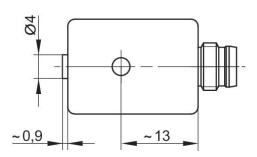


Type of contact	Electrical con- nection num- ber of poles	Operating voltage DC, min. [V DC]	Operating voltage DC, max. [V DC]	Operating voltage AC, min. [V AC]	Operational voltage AC, max. [V AC]	Version	Part No.
Reed	4-pin	12	36	12	30	Protected against polarity reversal	0830100467

Dimensions







1) LED M8: combination plug can be combined with valve plug connectors $\varnothing 6.5~\text{mm}$ and M8.



Round plug connector, Series CON-RD

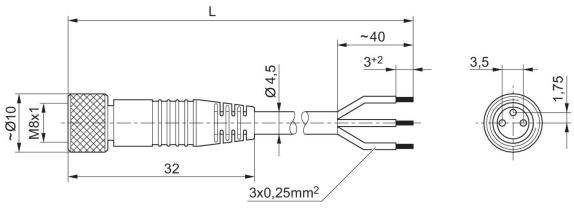
Socket M8x1 3-pin





Part No.
1834484166
1834484168
1834484247

Dimensions



L = length



Round plug connector, Series CON-RD

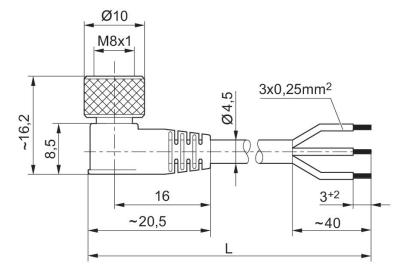
Socket M8x1 3-pin

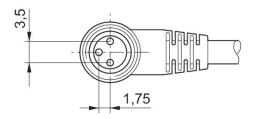




Part No.
1834484167
1834484169
1834484248

Dimensions





L = length



Round plug connector, Series CON-RD

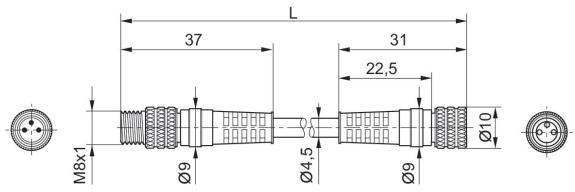
Plug M8x1 3-pin





Part No.
8946203702
8946203712
8946203722

Dimensions



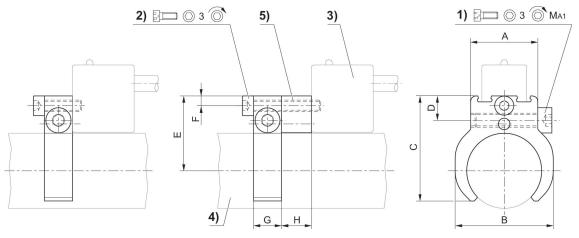
L = length



SN1 SN2



Cylinders Ø min. [mm]	Cylinders Ø max. [mm]	Material	Part No.
10	10	Aluminum	1827020065
12	12	Aluminum	1827020066
16	16	Aluminum	1827020067
20	20	Aluminum	1827020068
25	25	Aluminum	1827020069



1) Clamping screw 2) Mounting screw for sensor 3) Sensor 4) Cylinder profile 5) Insert (on request)

Cylinders Ø mm	Part No.	А		С	D	Е	F	G	Н	1)
10	1827020065	16	16	23.5	8.2	18.7	3.5	10	10.7	M4x14
12	1827020066	16	20	25.5	8.2	19.9	3.5	10	10.7	M4x14
16	1827020067	20	24	29.7	8.7	21.9	3.5	10	10.7	M4x25
20	1827020068	20	28	33	8.7	24.1	3.5	10	10.7	M4x25
25	1827020069	24	35	37.5	8.7	26.6	3.5	10	10.7	M4x25

Cylinders Ø mm	MA1 [Nm]
10	1 +0,3
12	1 +0,3
16	1 +0,3
20	1 +0,3
25	1 +0,3

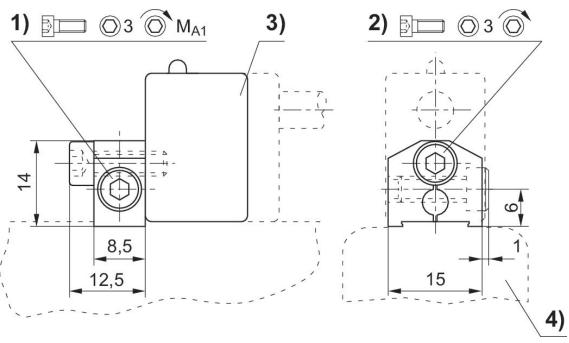


AVENTICS

SN1 SN2



Material		Part No.
	Aluminum	1827020084



1) Clamping screw 2) Mounting screw for sensor 3) Sensor 4) Cylinder profile

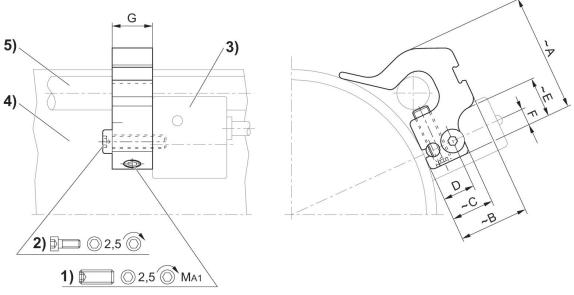
Part No.	Clamp- ing screw	MA1 [Nm]
1827020084	M4x12	2



SN1 SN2



Cylinders Ø min. [mm]	Cylinders Ø max. [mm]	Material	Part No.
32	40	Aluminum	1827020081
50	63	Aluminum	1827020082
80	100	Aluminum	1827020083



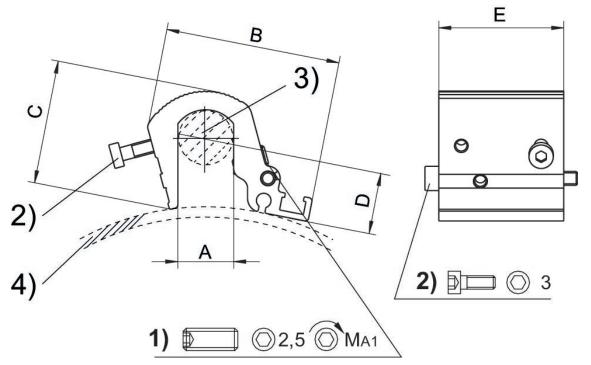
1) Clamping threaded pin 2) Mounting screw for sensor 3) Sensor 4) Cylinder profile 5) Tie rod

Part No.	Cylinders Ø mm	А	В	С	D	E	F	G	Clamping threaded pin	MA1 [Nm]
1827020081	32 - 40 mm	25.3	12.5	12.5	9.5	-	5	16	M5x16	1 +0,3
1827020082	50 - 63 mm	28.7	15.6	12.5	9.5	12	5	12	M5x16	1 +0,3
1827020083	80 - 100 mm	33.8	23	12.5	9.5	12	5	12	M5x16	1 +0,3





Cylinders Ø min. [mm]			Material	Part No.
160	200	ST6, SN2, SN6, SN1, SM6	Aluminum	R412017979
250	320	ST6, SN2, SN6, SN1, SM6	Aluminum	R412017980



1) Clamping threaded pin 2) Mounting screws for sensor 3) Tie rod 4) Cylinder profile

Cylinders Ø	Part No.	А	В	С	D	Е	MA1 [Nm]
160 - 200 mm	R412017979	16	51	36	6.8	36	2
250 - 320 mm	R412017980	24	56	44.5	6.8	36	2

Scope of delivery: Incl. mounting screws

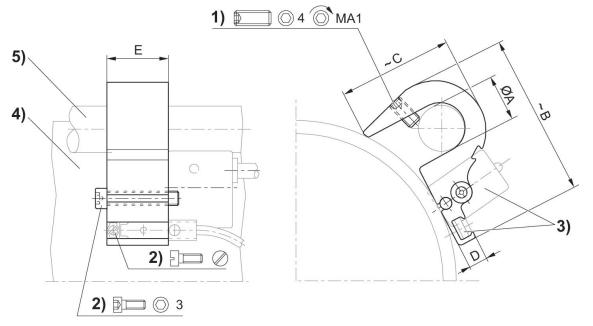


ST6 SM6 SN1





Cylinders Ø min. [mm]	Cylinders Ø max. [mm]	Material	Part No.
125	125	Aluminum	1827020292

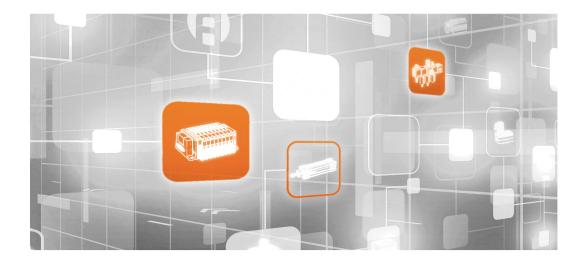


1) Clamping threaded pin 2) Mounting screw for sensor 3) Sensor 4) Cylinder profile 5) Tie rod

Part No.	Cylinders Ø	Ø A		С	D		Clamping threaded pin	MA1 [Nm]
1827020292	125 mm	12	45	29	6.5	21	M5x10	2



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