



Series PE5

The AVENTICS Series PE5 is an electronic pressure sensor, which combines electronic precision and versatile functions with ideal user friendliness.

- Simplified navigation in accordance with VDMA
- Protection class increased to IP65 and IP67
- · Contains zero point offset function
- PNP, NPN, and push-pull are freely selectable
- Option to switch between current and voltage
- UL approval and PWIS-free
- Compliant with CE, RoHS and Reach





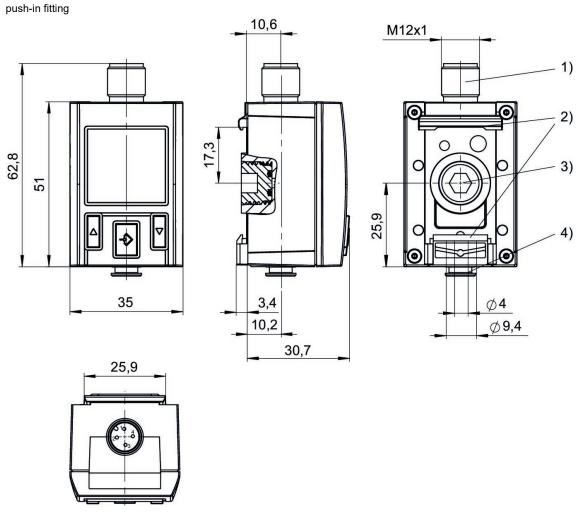
Pressure sensor, Series PE5

Plug
M12x1
CE declaration of conformity
cULus
R0HS
Conforms with REACH
Free of substances that impair surface wetting in the coating process
4-pin



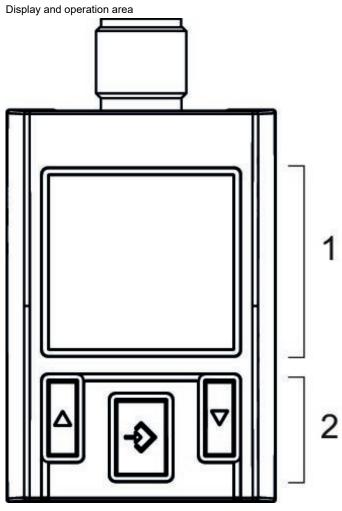
Thread con- nection	Operating pressure min [bar]	Operat- ing pres- sure max [bar]	Min. oper- ating volt- age DC [V DC]	Max. oper- ating volt- age DC [V DC]	Protection against over- pressure	Output sig- nal digital	Hysteresis	Part No.
Ø 4	-1	0	17	30	5 bar	2 x PNP, NPN, Push- pull	adjustable	R412010760
Ø 4	-1	0	17	30	5 bar	PNP, NPN, Push-pull, 0 - 10 V DC, 4 20 mA	adjustable	R412010768
Ø 4	-1	0	17	30	5 bar	PNP, NPN, push-pull, 1x IO-Link	adjustable	R412010774
Ø 4	-1	1	17	30	5 bar	2 x PNP, NPN, Push- pull	adjustable	R412010762
Ø 4	0	6	17	30	15 bar	PNP, NPN, Push-pull, 0 - 10 V DC, 4 20 mA	adjustable	R412010770
Ø 4	0	6	17	30	15 bar	2 x PNP, NPN, Push- pull	adjustable	R412010764
Ø 4	0	6	17	30	15 bar	PNP, NPN, push-pull, 1x IO-Link	adjustable	R412010776
Ø 4	0	10	17	30	15 bar	PNP, NPN, Push-pull, 0 - 10 V DC, 4 20 mA	adjustable	R412010772
Ø 4	0	10	17	30	15 bar	2 x PNP, NPN, Push- pull	adjustable	R412010766
Ø 4	0	10	17	30	15 bar	PNP, NPN, push-pull, 1x IO-Link	adjustable	R412010778
Ø 4	0	12	17	30	16 bar	2 x PNP, NPN, Push- pull	adjustable	R412010781
Ø 4	0	12	17	30	16 bar	PNP, NPN, push-pull, 1x IO-Link	adjustable	R412010805





- M12x1 electrical connection
 Mounting for hat rail and wall mounting
 Alternative pressure connection (G1/4) closed with plug
 Pressure connection, tubing Ø 4 mm

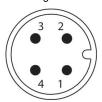




LCD display
 Control panel with 3 buttons

R412010760, R412010768, R412010774, R412010762, R412010770, R412010764, R412010776, R412010772, R412010766, R412010778, R412010781, R412010805

Pin assignments





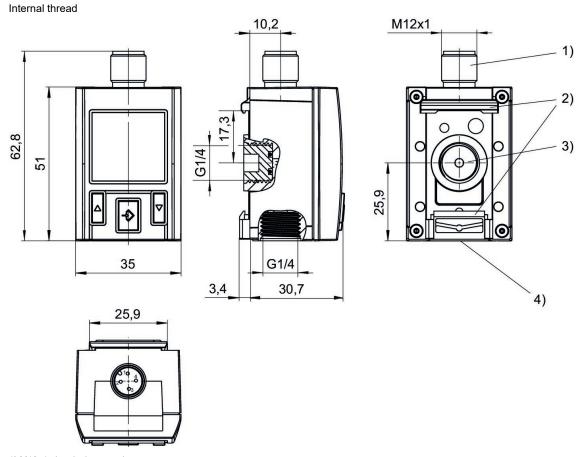
Pressure sensor, Series PE5

Plug
M12x1
CE declaration of conformity
cULus
R0HS
Conforms with REACH
Free of substances that impair surface wetting in the coating process
4-pin



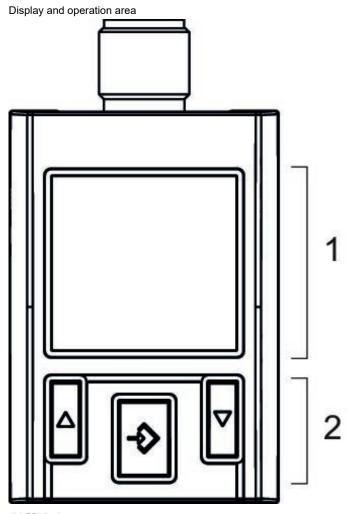
Thread con- nection	Operating pressure min [bar]	Operat- ing pres- sure max [bar]	Min. oper- ating volt- age DC [V DC]	Max. oper- ating volt- age DC [V DC]	Protection against over- pressure	Output sig- nal digital	Hysteresis	Part No.
G 1/4	-1	0	17	30	5 bar	2 x PNP, NPN, Push- pull	adjustable	R412010761
G 1/4	-1	0	17	30	5 bar	PNP, NPN, Push-pull, 0 - 10 V DC, 4 20 mA	adjustable	R412010769
G 1/4	-1	0	17	30	5 bar	PNP, NPN, push-pull, 1x IO-Link	adjustable	R412010775
G 1/4	-1	1	17	30	5 bar	2 x PNP, NPN, Push- pull	adjustable	R412010763
G 1/4	0	6	17	30	15 bar	PNP, NPN, Push-pull, 0 - 10 V DC, 4 20 mA	adjustable	R412010771
G 1/4	0	6	17	30	15 bar	2 x PNP, NPN, Push- pull	adjustable	R412010765
G 1/4	0	6	17	30	15 bar	PNP, NPN, push-pull, 1x IO-Link	adjustable	R412010777
G 1/4	0	10	17	30	15 bar	PNP, NPN, Push-pull, 0 - 10 V DC, 4 20 mA	adjustable	R412010773
G 1/4	0	10	17	30	15 bar	2 x PNP, NPN, Push- pull	adjustable	R412010767
G 1/4	0	10	17	30	15 bar	PNP, NPN, push-pull, 1x IO-Link	adjustable	R412010779
G 1/4	0	12	17	30	16 bar	2 x PNP, NPN, Push- pull	adjustable	R412010782
G 1/4	0	12	17	30	16 bar	PNP, NPN, push-pull, 1x IO-Link	adjustable	R412010806





- M12x1 electrical connection
 Mounting for hat rail and wall mounting
 Alternative pressure connection (G1/4) closed with plug
 Pressure connection G1/4

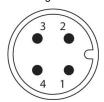




1) LCD display 2) Control panel with 3 buttons

R412010761, R412010769, R412010775, R412010763, R412010771, R412010765, R412010777, R412010773, R412010767, R412010779, R412010782, R412010806

Pin assignments





Pressure sensor, Series PE5, suitable for leak tests

Plug M12x1 CE declaration of conformity

cULus RoHS

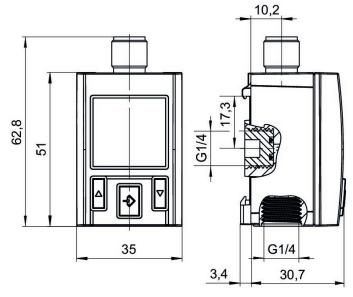
Conforms with REACH

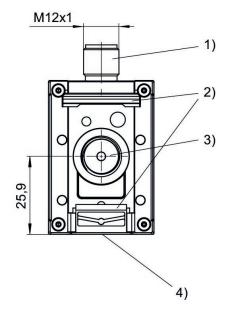
Free of substances that impair surface wetting in the coating process

5-pin



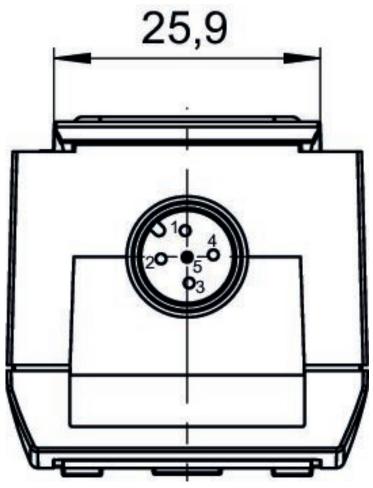
Thread co nection	n- Operating pressure min [bar]	Operat- ing pres- sure max [bar]	Min. oper- ating volt- age DC [V DC]	Max. oper- ating volt- age DC [V DC]	Protection against over- pressure	Output sig- nal digital	Hysteresis	Part No.
G	-1	10	17	30	15 bar	2x PNP, NPN, push-pull in standard mode, 1x in leakage mode, 0 - 10 V DC, 4 20 mA	,	R412026774





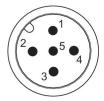


Electr. connection for leak test



R412026774

Pin assignments



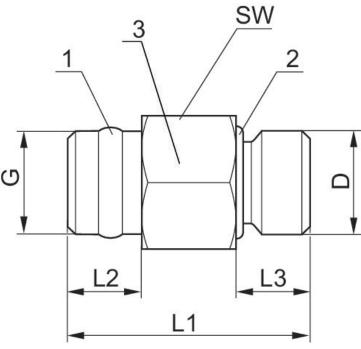


Double nipple, Series PE5

External thread External thread



G	ØD	Delivery unit [piece]	Weight [kg]	Part No.
G 1/4	G 1/8	2	0.04	R412010015
G 1/4	G 1/4	2	0.04	R412010016



- sealing ring Polytetrafluorethylen
 O-ring acrylonitrile butadiene rubber
 Housing brass, nickel-plated

Part No.	Port G	Port D	L1	L2	L3	SW
R412010015	G 1/4	G 1/8	30	10	8.5	17
R412010016	G 1/4	G 1/4	30	10	8.5	17

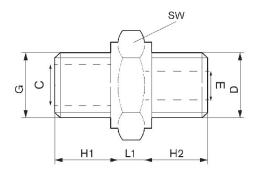


Double nipple

External thread External thread



G	ØD	Delivery unit [piece]	Part No.
G 1/4	G 1/8	10	1823391016
G 1/4	G 1/4	10	1823391017



Part No.	Port D	Port G	ØC	ØE	H1	H2	L1	SW
1823391081	M5	M5	-	2	4.5	4.5	4	8
1823391100	M5	G 1/8	-	-	7	5	5	13
1823391015	G 1/8	G 1/8	8	5	7.5	7.5	4	14
1823391016	G 1/8	G 1/4	8	5	10	7	5	17
1823391017	G 1/4	G 1/4	8	7.5	10	10	5	17
1823391018	G 1/4	G 3/8	12	7.5	10	10	5	22
1823391019	G 3/8	G 3/8	12	10	10	10	5	22
1823391020	G 3/8	G 1/2	15	10	12	10	6	27
1823391029	G 1/2	G 1/2	15	13	12	12	6	27
1823391286	G 1/2	G 3/4	20	13	12	12	7	32
1823391287	G 3/4	G 3/4	20	18	12	12	7	32
1823391288	G 3/4	G 1	25	18	15	12	8	41
1823391289	G 1	G 1	25	22	15	15	8	41



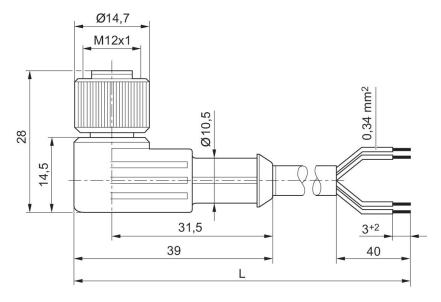
Round plug connector, Series CON-RD

Socket M12x1 5-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	M12x1	A-coded	open ca- ble ends	3	5.2	0.34	-40	85	1834484259
48 V AC/ DC	4	un- shielded	Socket	M12x1	A-coded	open ca- ble ends	5	5.2	0.34	-40	85	1834484260
48 V AC/ DC	4	un- shielded	Socket	M12x1	A-coded	open ca- ble ends	10	5.2	0.34	-40	85	1834484261

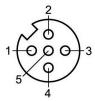






1834484259, 1834484260, 1834484261

Pin assignment, socket



(1) BN=brown (2) WH=white 3) BU=blue (4) BK=black (5) not assigned



Round plug connector, Series CON-RD

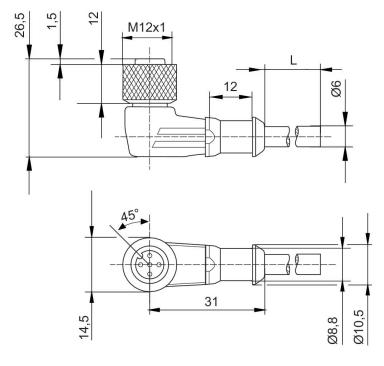
Socket M12x1 5-pin





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	shielded	Socket	M12x1	A-coded	open ca- ble ends	2.5	6	0.34	-25	80	R419800109
48 V AC/ DC	4	shielded	Socket	M12x1	A-coded	open ca- ble ends	5	6	0.34	-25	80	R419800110
48 V AC/ DC	4	shielded	Socket	M12x1	A-coded	open ca- ble ends	10	6	0.34	-25	80	R419800546

Dimensions



L = length



R419800109, R419800110, R419800546

Pin assignment, socket



(1) BN=brown (2) WH=white 3) BU=blue (4) BK=black (5) GY=grey

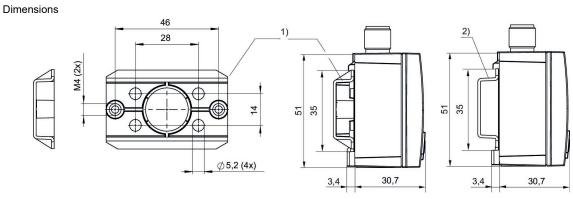


Wall mounting and hat rail

PE5



Delivery unit [piece]	Weight [kg]	Part No.
1	0.004	R412010405



- 1) Wall mounting 2) DIN rail

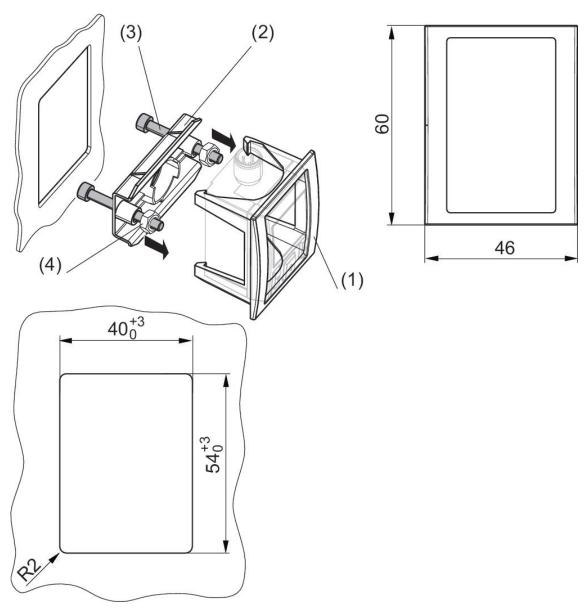


Control panel installation kit

PE5



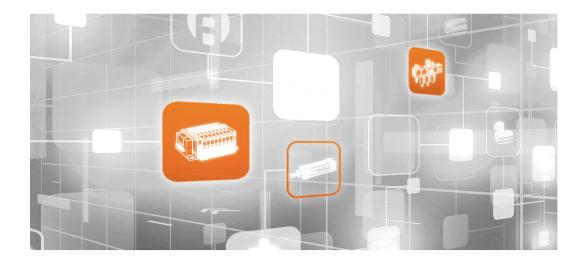
Delivery unit [piece]		Part No.
	1	R412010406



1 front frame (1), 1 wall mounting (2), 2 attachment screws M4x40 (3), 2 hexagonal nuts (4) Panel plate thickness max. $5.0~\mathrm{mm}$



Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



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