



Process sensors

Robust pressure sensors and transmitters for flexible use



Pressure sensors



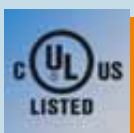
Sensors and transmitters with integrated evaluation

Units with special design for hygienic applications

Overload-protected measuring principles with a good long-term stability

Measuring ranges of -1...600 bar

Variable process connection and sealing technology via adapters



Pressure sensors

All units have robust housings and do not require moving parts such as pistons or springs. The result: the sensors are extremely shock and vibration resistant and operate without any wear and tear or maintenance.

The tried and tested ceramic-capacitive measuring cell is corrosion-resistant and long-term stable. This ensures consistent and long-term accuracy of the measured values. The sensors are resistant to dynamic pressure peaks and have a high overload protection.

The units featuring a stainless steel measuring cell are distinguished by their very compact and robust design. The welded stainless steel measuring cell without any seals ensures a high degree of safety, in particular for applications with gas pressures of up to 600 bar as well as in air-conditioning and refrigerating technology where aggressive coolants (freons) are used.

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Process sensors

Sensors with switching and analogue outputs, display and IO-Link


Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
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M12 connector · Output function 2 x normally open / closed progr. or 1 x normally open / closed progr. + 1 x analogue (4...20 mA / 0...10 V; scaleable 1:5) · Wiring diagram no. 1 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202



	G ¼ I	Display unit	0...600	800	2500	18...30	1	PN2160
	G ¼ I	Display unit	0...400	800	1700	18...30	1	PN2070
	G ¼ I	Display unit	0...250	500	1200	18...30	1	PN2071
	G ¼ I	Display unit	0...100	300	650	18...30	1	PN2092
	G ¼ I	Display unit	-1...25	150	350	18...30	1	PN2093
	G ¼ I	Display unit	-1...10	75	150	18...30	1	PN2094
	G ¼ I	Display unit	-0.125...2.5	20	50	18...30	1	PN2096
	G ¼ I	Display unit	-0.05...1	10	30	18...30	1	PN2097
	G ¼ I	Display unit	-0.0125...25	10	30	18...30	1	PN2098
	G ¼ I	Display unit	-1...1	20	50	18...30	1	PN2099
	G ¼ I	Display unit	-0.5...0.5	10	30	18...30	1	PN2169
	G ¼ A / M5 I	Display unit	0...600	800	2500	18...30	2	PN2560
	G ¼ A / M5 I	Display unit	0...400	800	1700	18...30	2	PN2570
	G ¼ A / M5 I	Display unit	0...250	500	1200	18...30	2	PN2571
	G ¼ A / M5 I	Display unit	0...100	300	650	18...30	2	PN2592
	G ¼ A / M5 I	Display unit	-1...25	150	350	18...30	2	PN2593

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
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M12 connector · Output function 2 x normally open / closed progr. or 1 x normally open / closed progr. + 1 x analogue (4...20 mA / 0...10 V; scaleable 1:5) · Wiring diagram no. 1 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202


	G ¼ A / M5 I	Display unit	-1...10	75	150	18...30	2	PN2594
	G ¼ A / M5 I	Display unit	-0.125...2.5	20	50	18...30	2	PN2596
	G ¼ A / M5 I	Display unit	-0.05...1	10	30	18...30	2	PN2597
	G ¼ A / M5 I	Display unit	-0.0125...0.25	10	30	18...30	2	PN2598
	G ¼ A / M5 I	Display unit	-1...1	20	50	18...30	2	PN2599
	G ¼ A / M5 I	Display unit	-0.5...0.5	10	30	18...30	2	PN2569

M12 connector · Output function normally open / closed programmable; 4...20 mA or 0...10 V · Wiring diagram no. 1 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202


	G ¼ I	Display unit	0...600	800	2500	18...30	1	PN3160
	G ¼ I	Display unit	0...400	800	1700	18...30	1	PN3070
	G ¼ I	Display unit	0...250	500	1200	18...30	1	PN3071
	G ¼ I	Display unit	0...100	300	650	18...30	1	PN3092
	G ¼ I	Display unit	0...25	150	350	18...30	1	PN3093
	G ¼ I	Display unit	-1...10	75	150	18...30	1	PN3094
	G ¼ I	Display unit	0...2.5	20	50	18...30	1	PN3096
	G ¼ I	Display unit	0...1	10	30	18...30	1	PN3097
	G ¼ I	Display unit	-1...0	20	50	18...30	1	PN3129
	G ¼ A / M5 I	Display unit	0...600	800	2500	18...30	2	PN3560



Process sensors



Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
M12 connector · Output function normally open / closed programmable; 4...20 mA or 0...10 V · Wiring diagram no. 1 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	G ¼ A / M5 I	Display unit	0...400	800	1700	18...30	2	PN3570
	G ¼ A / M5 I	Display unit	0...250	500	1200	18...30	2	PN3571
	G ¼ A / M5 I	Display unit	0...100	300	650	18...30	2	PN3592
	G ¼ A / M5 I	Display unit	0...25	150	350	18...30	2	PN3593
	G ¼ A / M5 I	Display unit	0...10	75	150	18...30	2	PN3594
	G ¼ A / M5 I	Display unit	0...2.5	20	50	18...30	2	PN3596
	G ¼ A / M5 I	Display unit	0...1	10	30	18...30	2	PN3597
	G ¼ A / M5 I	Display unit	-1...0	20	50	18...30	2	PN3529

Sensors with switching outputs and display with IO-Link

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
M12 connector · Output function 2 x normally open / closed programmable · DC PNP/NPN · Wiring diagram no. 1 · Connector groups 8, 9, 10, 11, 18, 19, 21, 23, 25, 148, 149, 150, 151, 153, 154, 184, 188, 190, 193, 202, 203, 204								
	G ¼ I	Display unit	0...600	800	2500	18...30	1	PN7160
	G ¼ I	Display unit	0...400	800	1700	18...30	1	PN7070
	G ¼ I	Display unit	0...250	500	1100	18...30	1	PN7071
	G ¼ I	Display unit	0...100	300	650	18...30	1	PN7092
	G ¼ I	Display unit	0...25	150	350	18...30	1	PN7093
	G ¼ I	Display unit	-1...10	75	150	18...30	1	PN7094

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
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M12 connector · Output function 2 x normally open / closed programmable · DC PNP/NPN · Wiring diagram no. 1 · Connector groups 8, 9, 10, 11, 18, 19, 21, 23, 25, 148, 149, 150, 151, 153, 154, 184, 188, 190, 193, 202, 203, 204

	G ¼ I	Display unit	0...2.5	20	50	18...30	1	PN7096
	G ¼ I	Display unit	0...1	10	30	18...30	1	PN7097
	G ¼ I	Display unit	-1...1	20	50	18...30	1	PN7099
	G ¼ A / M5 I	Display unit	0...600	800	2500	18...30	2	PN7560
	G ¼ A / M5 I	Display unit	0...400	800	1700	18...30	2	PN7570
	G ¼ A / M5 I	Display unit	0...250	500	1100	18...30	2	PN7571
	G ¼ A / M5 I	Display unit	0...100	300	650	18...30	2	PN7592
	G ¼ A / M5 I	Display unit	0...25	150	350	18...30	2	PN7593
	G ¼ A / M5 I	Display unit	-1...10	75	150	18...30	2	PN7594
	G ¼ A / M5 I	Display unit	0...2.5	20	50	18...30	2	PN7596
	G ¼ A / M5 I	Display unit	0...1	10	30	18...30	2	PN7597
	G ¼ A / M5 I	Display unit	-1...1	20	50	18...30	2	PN7599

Electronic contact manometers with switching output and analogue output


Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
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M12 connector · Output function 1 x normally open / closed programmable + 1 x analogue (4...20 / 20...4 mA, scalable) · DC PNP/NPN · Wiring diagram no. 17 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202



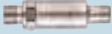
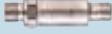
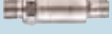
	G ½ A	Display unit	0...400	800	1200	18...32	3	PG2450
	G ½ A	Display unit	0...250	600	1000	18...32	3	PG2451



Process sensors


Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
M12 connector · Output function 1 x normally open / closed programmable + 1 x analogue (4...20 / 20...4 mA, scalable) · DC PNP/NPN · Wiring diagram no. 17 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	G ½ A	Display unit	0...100	300	700	18...32	3	PG2452
	G ½ A	Display unit	-1...25	100	300	18...32	3	PG2453
	G ½ A	Display unit	-1...10	50	150	18...32	3	PG2454
	G ½ A	Display unit	-1...4	30	100	18...32	3	PG2455
	G ½ A	Display unit	-0.125...2.5	20	50	18...32	3	PG2456
	G ½ A	Display unit	-0.05...1	10	30	18...32	3	PG2457
	G ½ A	Display unit	-0.0125...0.25	10	30	18...32	3	PG2458
	G ½ A	Display unit	-0.005...0.1	4	30	18...32	3	PG2489
	G ½ A	Display unit	-1...1	10	30	18...32	3	PG2409

PV sensors with switching outputs, IO-Link

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
M12 connector · Output function 2 x normally open / closed programmable · DC PNP/NPN · Wiring diagram no. 1 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	G ¼ A / M5 I	–	0...400	1000	1700	18...30	4	PV7000
	G ¼ A / M5 I	–	0...250	625	1200	18...30	4	PV7001
	G ¼ A / M5 I	–	0...100	250	1000	18...30	4	PV7002
	G ¼ A / M5 I	–	0...60	150	900	18...30	4	PV7023
	G ¼ A / M5 I	–	-1...25	65	600	18...30	4	PV7003


Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
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M12 connector · Output function 2 x normally open / closed programmable · DC PNP/NPN · Wiring diagram no. 1 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202


	G ¼ A / M5 I	–	-1...10	25	300	18...30	4	PV7004
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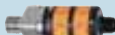
PK sensors with mechanical setting and switching outputs


Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
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M12 connector · Output function  · DC PNP · Wiring diagram no. 2 · Connector groups 8, 9, 10, 11, 18, 19, 21, 23, 25, 148, 149, 150, 151, 153, 154, 184, 188, 190, 193, 202, 203, 204

	G ¼ A / M5 I	Operation	0...400	600	1600	9.6...32	5	PK5520
	G ¼ A / M5 I	Operation	0...250	400	1000	9.6...32	5	PK5521
	G ¼ A / M5 I	Operation	0...100	200	1000	9.6...32	5	PK5522
	G ¼ A / M5 I	Operation	0...25	60	500	9.6...32	5	PK5523
	G ¼ A / M5 I	Operation	0...10	25	300	9.6...32	5	PK5524

M12 connector · Output function  · DC PNP · Wiring diagram no. 3 · Connector groups 8, 9, 10, 11, 18, 19, 21, 23, 25, 148, 149, 150, 151, 153, 154, 184, 188, 190, 193, 202, 203, 204

	G ¼ A / M5 I	Operation	0...400	600	1600	9.6...32	5	PK6520
	G ¼ A / M5 I	Operation	0...250	400	1000	9.6...32	5	PK6521
	G ¼ A / M5 I	Operation	0...100	200	1000	9.6...32	5	PK6522
	G ¼ A / M5 I	Operation	0...25	60	500	9.6...32	5	PK6523
	G ¼ A / M5 I	Operation	0...10	25	300	9.6...32	5	PK6524

M12 connector · Output function  · DC PNP · Wiring diagram no. 4 · Connector groups 8, 9, 10, 11, 18, 19, 21, 23, 25, 148, 149, 150, 151, 153, 154, 184, 188, 190, 193, 202, 203, 204

	G ¼ A / M5 I	Switching status	0...400	600	1600	9.6...32	5	PK7520
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Process sensors

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
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M12 connector · Output function · DC PNP · Wiring diagram no. 4 · Connector groups 8, 9, 10, 11, 18, 19, 21, 23, 25, 148, 149, 150, 151, 153, 154, 184, 188, 190, 193, 202, 203, 204

	G ¼ A / M5 I	Switching status	0...250	400	1000	9.6...32	5	PK7521
	G ¼ A / M5 I	Switching status	0...100	200	1000	9.6...32	5	PK7522
	G ¼ A / M5 I	Switching status	0...25	60	500	9.6...32	5	PK7523
	G ¼ A / M5 I	Switching status	0...10	25	300	9.6...32	5	PK7524

PP sensors for mobile and industrial applications with switching outputs, IO-Link

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
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M12 connector · Output function 2 x normally open / closed programmable or 1 x normally open / closed programmable + 1 x normally closed (diagnostic function) · DC PNP · Wiring diagram no. 5 · Connector groups 8, 9, 10, 11, 18, 19, 21, 23, 25, 148, 149, 150, 151, 153, 154, 184, 188, 190, 193, 202, 203, 204


	G ¼ A / M5 I	Operation	0...400	600	1000	9.6...36	6	PP7550
	G ¼ A / M5 I	Operation	0...250	400	850	9.6...36	6	PP7551
	G ¼ A / M5 I	Operation	0...100	300	650	9.6...36	7	PP7552
	G ¼ A / M5 I	Operation	0...25	150	350	9.6...36	8	PP7553
	G ¼ A / M5 I	Operation	-1...10	75	150	9.6...36	8	PP7554
	G ¼ A / M5 I	Operation	0...2.5	20	50	9.6...36	8	PP7556

M12 connector · Output function 2 x normally open / closed programmable or 1 x normally open / closed programmable + 1 x normally closed (diagnostic function) · DC NPN · Wiring diagram no. 5 · Connector groups 8, 9, 10, 11, 18, 19, 21, 23, 25, 148, 149, 150, 151, 153, 154, 184, 188, 190, 193, 202, 203, 204

	G ¼ A / M5 I	Operation	0...400	600	1000	9.6...36	6	PP0520
	G ¼ A / M5 I	Operation	0...250	400	850	9.6...36	6	PP0521
	G ¼ A / M5 I	Operation	0...100	300	650	9.6...36	7	PP0522

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
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M12 connector · Output function 2 x normally open / closed programmable or 1 x normally open / closed programmable + 1 x normally closed (diagnostic function) · DC NPN · Wiring diagram no. 5 · Connector groups 8, 9, 10, 11, 18, 19, 21, 23, 25, 148, 149, 150, 151, 153, 154, 184, 188, 190, 193, 202, 203, 204

	G ¼ A / M5 I	Operation	0...25	150	350	9.6...36	8	PP0523
	G ¼ A / M5 I	Operation	-1...10	75	150	9.6...36	8	PP0524


Sensors for pneumatic applications

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
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M12 connector · Output function 2 x normally open / closed programmable or 1 x normally open / closed programmable + 1 x normally closed (diagnostic function) · DC PNP/NPN · Wiring diagram no. 18 · Connector groups 8, 9, 10, 11, 18, 19, 21, 23, 25, 148, 149, 150, 151, 153, 154, 184, 188, 190, 193, 202, 203, 204

	G 1/8 I	Display unit	-1...1	20	30	18...36	9	PN7809
	G 1/8 I	Display unit	-1...10	20	30	18...36	9	PN7834


M8 connector · Output function 2 x normally open / closed programmable or 1 x normally open / closed programmable + 1 x normally closed (diagnostic function) · DC PNP · Wiring diagram no. 4 · Connector groups 4, 5, 80, 86, 147

	G 1/8 I	Display unit	-1...1	20	30	18...32	10	PQ7809
	G 1/8 I	Display unit	-1...10	20	30	18...32	10	PQ7834

M8 connector · Output function 2 x normally open / closed programmable or 1 x normally open / closed programmable + 1 x normally closed (diagnostic function) · DC NPN · Wiring diagram no. 6 · Connector groups 4, 5, 80, 86, 147

	G 1/8 I	Display unit	-1...1	20	30	18...32	10	PQ0809
	G 1/8 I	Display unit	-1...10	20	30	18...32	10	PQ0834





M8 connector · Output function 1 x NO / NC programmable + 1 x current output · DC PNP · Wiring diagram no. 7 · Connector groups 4, 5, 80, 86, 147

	G 1/8 I / M5 I	Display unit	-1...1	20	30	18...32	11	PQ3809
	G 1/8 I / M5 I	Display unit	-1...10	20	30	18...32	11	PQ3834





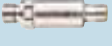


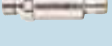

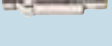
Process sensors

Absolute pressure sensors with analogue outputs for industrial applications




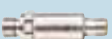











Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
	G ¼ A	–	0...10	20	50	8...30	12	PT0504
	G ¼ A	–	0...4	8	25	8...30	12	PT0505
	G ¼ A	–	0...1.6	3.2	10	8...30	12	PT0517
	G ¼ A	–	0...1	2	5	8...30	12	PT0507

M12 connector · Output function 4...20 mA analogue · DC · Wiring diagram no. 8 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202

PT sensors for industrial applications with analogue outputs

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
	G ¼ A	–	0...600	1500	2500	8.5...36	4	PT5460
	G ¼ A	–	0...400	1000	1700	8.5...36	4	PT5400
	G ¼ A	–	0...250	625	1200	8.5...36	4	PT5401
	G ¼ A	–	0...160	400	1100	8.5...36	4	PT5412
	G ¼ A	–	0...100	250	1000	8.5...36	4	PT5402
	G ¼ A	–	0...60	150	900	8.5...36	4	PT5423
	G ¼ A	–	0...40	100	800	8.5...36	4	PT5443
	G ¼ A	–	0...25	65	600	8.5...36	4	PT5403

M12 connector · Output function 4...20 mA analogue · DC · Wiring diagram no. 8 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
M12 connector · Output function 4...20 mA analogue · DC · Wiring diagram no. 8 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	G ¼ A	–	0...16	40	450	8.5...36	4	PT5414
	G ¼ A	–	0...10	25	300	8.5...36	4	PT5404
	G ¼ A	–	-1...10	25	300	8.5...36	4	PT5494
	G ¼ A	–	0...6	15	200	8.5...36	4	PT5415
M12 connector · Output function 0...10 V analogue · DC · Wiring diagram no. 9 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	G ¼ A	–	0...600	1500	2500	16...36	4	PU5460
	G ¼ A	–	0...400	1000	1700	16...36	4	PU5400
	G ¼ A	–	0...250	625	1200	16...36	4	PU5401
	G ¼ A	–	0...160	400	1100	16...36	4	PU5412
	G ¼ A	–	0...100	250	1000	16...36	4	PU5402
	G ¼ A	–	0...60	150	900	16...36	4	PU5423
	G ¼ A	–	0...40	100	800	16...36	4	PU5443
	G ¼ A	–	0...25	65	600	16...36	4	PU5403
	G ¼ A	–	0...16	40	450	16...36	4	PU5414
	G ¼ A	–	0...10	25	300	16...36	4	PU5404
	G ¼ A	–	0...6	15	200	16...36	4	PU5415




Process sensors






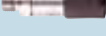
PT / PU sensors for mobile applications with analogue outputs

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Drawing no.	Order no.
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M12 connector · Output function 0...10 V analogue · DC · Wiring diagram no. 10 · Connector group 202













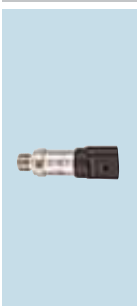
	G ¼ A	–	0...400	600	1600	16...36	13	PT9550
	G ¼ A	–	0...250	400	1000	16...36	13	PT9551
	G ¼ A	–	0...100	200	1000	16...36	13	PT9552
	G ¼ A	–	0...25	60	600	16...36	13	PT9553
	G ¼ A	–	0...10	25	300	16...36	13	PT9554

DEUTSCH connector DT04-3P · Output function 0...10 V analogue · DC · Wiring diagram no. 11

	G ¼ A	–	0...600	1500	2500	16...32	14	PU5760
	G ¼ A	–	0...400	1000	1700	16...32	14	PU5700
	G ¼ A	–	0...250	625	1200	16...32	14	PU5701
	G ¼ A	–	0...100	250	1000	16...32	14	PU5702
	G ¼ A	–	0...25	65	600	16...32	14	PU5703
	G ¼ A	–	0...10	25	300	16...32	14	PU5704

DEUTSCH connector DT04-3P · DC · Wiring diagram no. 11

	G ¼	–	0...400	1000	1700	8...32	14	PU8700
	G ¼	–	0...250	625	1200	8...32	14	PU8701
	G ¼	–	0...100	250	1000	8...32	14	PU8702

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
DEUTSCH connector DT04-3P · DC · Wiring diagram no. 11								
	G ¼	–	0...25	65	600	8...32	14	PU8703
	G ¼	–	0...10	25	300	8...32	14	PU8704
	G ¼	–	0...160	400	1100	8...32	14	PU8712
	G ¼	–	0...40	100	800	8...32	14	PU8743
	G ¼	–	0...600	1500	2500	8...32	14	PU8760
M12 connector · Output function 0.5...4.5 V · DC · Wiring diagram no. 9 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	G ¼ A	–	0...400	1000	1700	8...32	4	PU8500
	G ¼ A	–	0...250	625	1200	8...32	4	PU8501
	G ¼ A	–	0...100	250	1000	8...32	4	PU8502
	G ¼ A	–	0...60	65	600	8...32	4	PU8503
	G ¼ A	–	0...10	25	300	8...32	4	PU8504
	G ¼ A	–	0...60	150	900	8...32	4	PU8523
	G ¼ A	–	0...600	1500	2500	8...32	4	PU8560
AMP Superseal · Output function 0...10 V analogue · DC · Wiring diagram no. 12								
	G ¼ A	–	0...600	1500	2500	16...32	15	PU5660
	G ¼ A	–	0...400	1000	1700	16...32	15	PU5600
	G ¼ A	–	0...250	625	1200	16...32	15	PU5601


You can find wiring diagrams and scale drawings from page 477









Process sensors

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
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AMP Superseal · Output function 0...10 V analogue · DC · Wiring diagram no. 12







	G ¼ A	–	0...100	250	1000	16...32	15	PU5602
	G ¼ A	–	0...25	65	600	16...32	15	PU5603
	G ¼ A	–	0...10	25	300	16...32	15	PU5604

M12 connector · Output function 4...20 mA analogue · DC · Wiring diagram no. 8 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202


	G ¼ A	–	0...600	1500	2500	8...32	4	PT5560
	G ¼ A	–	0...400	1000	1700	8...32	4	PT5500
	G ¼ A	–	0...250	625	1200	8...32	4	PT5501
	G ¼ A	–	0...100	250	1000	8...32	4	PT5502
	G ¼ A	–	0...25	65	600	8...32	4	PT5503
	G ¼ A	–	0...10	25	300	8...32	4	PT5504

AMP Superseal · Output function 0...10 V analogue · DC · Wiring diagram no. 12

	G ¼ A	–	0...400	1000	1700	16...32	15	PU5600
	G ¼ A	–	0...250	625	1200	16...32	15	PU5601
	G ¼ A	–	0...100	250	1000	16...32	15	PU5602
	G ¼ A	–	0...25	65	600	16...32	15	PU5603
	G ¼ A	–	0...10	25	300	16...32	15	PU5604
	G ¼ A	–	0...600	1500	2500	16...32	15	PU5660






Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
DEUTSCH connector DT04-3P · Output function 4...20 mA analogue · DC · Wiring diagram no. 13								
	G ¼ A	–	0...400	1000	1700	8...32	14	PT5700
	G ¼ A	–	0...250	625	1200	8...32	14	PT5701
	G ¼ A	–	0...100	250	1000	8...32	14	PT5702
	G ¼ A	–	0...25	65	600	8...32	14	PT5703
	G ¼ A	–	0...10	25	300	8...32	14	PT5704
	G ¼ A	–	0...600	1500	2500	8...32	14	PT5760


PA sensors with analogue outputs

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
M12 connector · Output function 4...20 mA · DC · Wiring diagram no. 14 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	G ¼ I	–	0...600	800	1200	9.6...32	16	PA3060
	G ¼ I	–	0...400	600	1000	9.6...32	17	PA3020
	G ¼ I	–	0...250	400	850	9.6...32	17	PA3021
	G ¼ I	–	0...100	300	650	9.6...32	18	PA3022
	G ¼ I	–	0...25	150	350	9.6...32	18	PA3023
	G ¼ I	–	0...10	75	150	9.6...32	18	PA3024
	G ¼ I	–	0...2.5	20	50	9.6...32	18	PA3026




Process sensors


Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
M12 connector · Output function 4...20 mA · DC · Wiring diagram no. 14 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	G 1/4 I	–	0...1	10	30	9.6...32	18	PA3027
	G 1/4 I	–	0...0.25	10	30	9.6...32	18	PA3028
	G 1/4 I	–	-1...0	10	30	9.6...32	18	PA3029
M12 connector · Output function 4...20 mA · DC · Wiring diagram no. 8 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	G 1/4 A / M5 I	–	0...250	400	850	9.6...32	19	PA3521
	G 1/4 A / M5 I	–	0...100	300	650	9.6...32	19	PA3522
M12 connector · Output function 4...20 mA · DC · Wiring diagram no. 14 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	G 1/4 A / M5 I	–	0...25	150	350	9.6...32	19	PA3523
	G 1/4 A / M5 I	–	0...10	75	150	9.6...32	19	PA3524
	G 1/4 A / M5 I	–	0...2.5	20	50	9.6...32	19	PA3526
	G 1/4 A / M5 I	–	0...0.25	10	30	9.6...32	19	PA3528
M12 connector · Output function 4...20 mA · DC · Wiring diagram no. 8 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	G 1/4 A / M5 I	–	0...0.1	4	30	9.6...32	19	PA3589
M12 connector · Output function 0...10 V · DC · Wiring diagram no. 10 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	G 1/4 I	–	0...600	800	1200	16...32	16	PA9060
	G 1/4 I	–	0...400	600	1000	16...32	17	PA9020
	G 1/4 I	–	0...250	400	850	16...32	18	PA9021
	G 1/4 I	–	0...100	300	650	16...32	18	PA9022

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
M12 connector · Output function 0...10 V · DC · Wiring diagram no. 10 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	G ¼ I	–	0...25	150	350	16...32	18	PA9023
	G ¼ I	–	0...10	75	150	16...32	18	PA9024
	G ¼ I	–	0...2.5	20	50	16...32	18	PA9026
	G ¼ I	–	0...1	10	30	16...32	18	PA9027
	G ¼ I	–	0...0.25	10	30	16...32	18	PA9028
	G ¼ I	–	-1...0	10	30	16...32	18	PA9029

Part seat monitoring

Type	Description	Order no.
	Control unit for part seat monitoring · Setting by adjustment of the pneumatic bridge · Integrated pressure sensor with 2 switching outputs · and 4-digit alphanumeric display for trend display or display of current pressure · Cable	PS7570

Sensors for hydrostatic level monitoring

Type	Measuring range [bar]	Cable length / material	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
Output function 4...20 mA analogue · Wiring diagram no. 15							
	0...0.25	5 m PUR cable	2	2.4	10...30	20	PS3208
	0...0.6	10 m PUR cable	4	4.8	10...30	20	PS3407
	0...0.6	15 m PUR cable	4	4.8	10...30	20	PS3427
	0...0.6	30 m PUR cable	4	4.8	10...30	20	PS3607
	0...1	15 m PUR cable	5	6	10...30	20	PS3417

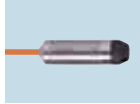
You can find wiring diagrams and scale drawings from page 477




Process sensors

Type	Measuring range [bar]	Cable length / material	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
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Output function 4...20 mA analogue · Wiring diagram no. 15

	0...1	30 m PUR cable	5	6	10...30	20	PS3617
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Output function 4...20 mA analogue · Wiring diagram no. 16

	0...0.25	5 m FEP cable	2	2.4	10...30	21	PS4208
	0...0.25	10 m FEP cable	2	2.4	10...30	21	PS4408
	0...0.6	10 m FEP cable	3	4	10...30	21	PS4407
	0...0.6	20 m FEP cable	3	4	10...30	21	PS4506

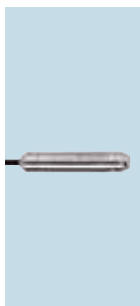
· Wiring diagram no. 16

	0...1	15 m FEP cable	5	6	10...30	21	PS4417
	0...1	30 m FEP cable	5	6	10...30	21	PS4607

Sensors for hydrostatic level monitoring ATEX category 1G/1D

Type	Measuring range [bar]	Cable length / material	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
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Output function 4...20 mA analogue · Wiring diagram no. 16

	0...0.25	5 m FEP cable	2	2.4	10...30	21	PS308A
	0...0.6	10 m FEP cable	4	4.8	10...30	21	PS307A
	0...1	15 m FEP cable	5	6	10...30	21	PS317A

Sensors with ATEX approval 3D/3G

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Drawing no.	Order no.
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M12 connector · Output function 1 x normally open / closed programmable + 1 x analogue (I / U, scaleable 1:4) · DC PNP/NPN · Wiring diagram no. 17 · Connector groups 196, 198

	Sealing cone G1 male	Display unit	-1...25	100	350	18...32	22	PI003A
	Sealing cone G1 male	Display unit	-0.0124...0.25	10	30	18...32	22	PI008A
	Sealing cone G1 male	Display unit	-1...1	10	30	18...32	22	PI009A

Full metal sensors for hygienic and wet areas with switching and analogue outputs, IO-Link

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Drawing no.	Order no.
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M12 connector · Output function 1 x normally open / normally closed progr. + 1 x normally open / normally closed progr. or 1 x analogue (4...20 / 20...4 mA, scalable) · Wiring diagram no. 19 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202

	Aseptoflex Vario	Display unit	-1...25	100	350	20...32	23	PI2793
	Aseptoflex Vario	Display unit	-1...10	50	150	20...32	23	PI2794
	Aseptoflex Vario	Display unit	-1...4	30	100	20...32	23	PI2795
	Aseptoflex Vario	Display unit	-0.124...2.5	20	50	20...32	23	PI2796
	Aseptoflex Vario	Display unit	-0.05...1	10	30	20...32	23	PI2797
	Aseptoflex Vario	Display unit	-0.0124...0.25	10	30	20...32	23	PI2798
	Aseptoflex Vario	Display unit	-0.005...0.1	4	30	20...32	23	PI2789
	Aseptoflex Vario	Display unit	-1...1	10	30	20...32	23	PI2799
	Sealing cone G1 male	Display unit	-1...25	100	350	20...32	24	PI2893*



Process sensors

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
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M12 connector · Output function 1 x normally open / normally closed progr. + 1 x normally open / normally closed progr. or 1 x analogue (4...20 / 20...4 mA, scalable) · Wiring diagram no. 19 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202

	Sealing cone G1 male	Display unit	-1...10	50	150	20...32	24	PI2894*
	Sealing cone G1 male	Display unit	-1...4	30	100	20...32	24	PI2895*
	Sealing cone G1 male	Display unit	-0.124...2.5	20	50	20...32	24	PI2896*
	Sealing cone G1 male	Display unit	-0.05...1	10	30	20...32	24	PI2897*
	Sealing cone G1 male	Display unit	-0.0124...0.25	10	30	20...32	24	PI2898*
	Sealing cone G1 male	Display unit	-0.005...0.1	4	30	20...32	24	PI2889*
	Sealing cone G1 male	Display unit	-1...1	10	30	20...32	24	PI2899*


* Attention: The unit must only be installed in a process connection for G1 sealing cone! The G1 male sealing cone of the unit is only suited for adapters with metal end stop!

Full-metal high-temperature sensors up to 200 °C for hygienic and wet areas with switching output and analogue output, IO-Link




Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
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M12 connector · Output function 1 x normally open / normally closed progr. + 1 x normally open / normally closed progr. or 1 x analogue (4...20 / 20...4 mA, scalable) · Wiring diagram no. 20 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202

	Clamp DN 38 / 1½"	Display unit	-1...25	80	150	20...32	25	PI2203
	Clamp DN 38 / 1½"	Display unit	-1...10	50	100	20...32	25	PI2204
	Clamp DN 38 / 1½"	Display unit	-1...4	30	50	20...32	25	PI2205
	Clamp DN 38 / 1½"	Display unit	-0.124...2.5	20	50	20...32	25	PI2206
	Clamp DN 38 / 1½"	Display unit	-0.05...1	10	30	20...32	25	PI2207
	Clamp DN 38 / 1½"	Display unit	-1...1	10	30	20...32	25	PI2209


Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
M12 connector · Output function 1 x normally open / normally closed progr. + 1 x normally open / normally closed progr. or 1 x analogue (4...20 / 20...4 mA, scalable) · Wiring diagram no. 20 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	Clamp DN 51 / 2"	Display unit	-1...25	80	150	20...32	26	PI2303
	Clamp DN 51 / 2"	Display unit	-1...10	50	100	20...32	26	PI2304
	Clamp DN 51 / 2"	Display unit	-1...4	30	50	20...32	26	PI2305
	Clamp DN 51 / 2"	Display unit	-0.124...2.5	20	50	20...32	26	PI2306
	Clamp DN 51 / 2"	Display unit	-0.05...1	10	30	20...32	26	PI2307
	Clamp DN 51 / 2"	Display unit	-1...1	10	30	20...32	26	PI2309

Electronic contact manometers for hygienic and wet areas with switching and analogue outputs

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
M12 connector · Output function 1 x normally open / closed programmable + 1 x analogue (4...20 / 20...4 mA, scalable) · DC PNP/NPN · Wiring diagram no. 17 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	Aseptoflex Vario	Display unit	-1...25	100	350	18...32	27	PG2793
	Aseptoflex Vario	Display unit	-1...10	50	150	18...32	27	PG2794
	Aseptoflex Vario	Display unit	-1...4	30	100	18...32	27	PG2795
	Aseptoflex Vario	Display unit	-0.124...2.5	20	50	18...32	27	PG2796
	Aseptoflex Vario	Display unit	-0.05...1	10	30	18...32	27	PG2797
	Aseptoflex Vario	Display unit	-0.0124...0.25	10	30	18...32	27	PG2798
	Aseptoflex Vario	Display unit	-0.005...0.1	4	30	18...32	27	PG2789
	Aseptoflex Vario	Display unit	-1...1	10	30	18...32	27	PG2799




Process sensors


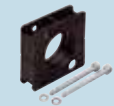

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
M12 connector · Output function 1 x normally open / closed programmable + 1 x analogue (4...20 / 20...4 mA, scalable) · DC PNP/NPN · Wiring diagram no. 17 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	Sealing cone G1 male	Display unit	-1...25	100	350	18...32	28	PG2893*
	Sealing cone G1 male	Display unit	-1...10	50	150	18...32	28	PG2894*
	Sealing cone G1 male	Display unit	-1...4	30	100	18...32	28	PG2895*
	Sealing cone G1 male	Display unit	-0.124...2.5	20	50	18...32	28	PG2896*
	Sealing cone G1 male	Display unit	-0.05...1	10	30	18...32	28	PG2897*
	Sealing cone G1 male	Display unit	-0.0124...0.25	10	30	18...32	28	PG2898*
	Sealing cone G1 male	Display unit	-0.005...0.1	4	30	18...32	28	PG2889*
	Sealing cone G1 male	Display unit	-1...1	10	30	18...32	28	PG2899*

* Attention: The unit must only be installed in a process connection for G1 sealing cone! The G1 male sealing cone of the unit is only suited for adapters with metal end stop!


PF sensors for hygienic and wet areas with switching and analogue outputs

Type	Process connection	Display	Measuring range [bar]	P _{overload} max. [bar]	P _{bursting} min. [bar]	U _b DC [V]	Draw- ing no.	Order no.
M12 connector · Output function 2 x normally open / closed progr. or 1 x normally open / closed progr. + 1 x analogue (4...20 mA / 0...10 V; scaleable 1:4) · Wiring diagram no. 21 · Connector groups 8, 10, 19, 21, 23, 25, 148, 149, 153, 184, 188, 193, 202								
	G ¾ A	Switching status	-1...25	100	200	20...30	29	PF2953
	G ¾ A	Switching status	-0.5...10	50	150	20...30	29	PF2954
	G ¾ A	Switching status	-0.13...2.5	20	50	20...30	29	PF2956
	G ¾ A	Switching status	-0.05...1	10	30	20...30	29	PF2957

Fixing components for pressure sensors

Type	Description	Order no.
	Angle bracket · Housing materials: PA66-	E30421
	Mounting clamp · Ø 34 mm · Housing materials: PBT	E10017
	Mounting clamp · Ø 34 mm · Housing materials: PA	E10193



Software

Type	Description	Order no.
	LR DEVICE (USB stick) · Parameter setting of the units via the network · Software for clear online and offline parameter setting of IO-Link sensors via USB adapter · Use via USB connection cable (drivers are supplied): E30396 IO-Link interface or E30390 IO-Link master (note the respective data sheet) · IODD import and update from ifm's homepage · Reading of IODDs via storage media · Automatic sensor identification · Graphic representation of the process values and history incl. export function · Documentation and archiving · Transferable parameter sets · Full memory plug support for IO-Link 1.1	QA0011
	LR DEVICE (download) · Parameter setting of the units via the network · Software for clear online and offline parameter setting of IO-Link sensors via USB adapter · Use via USB connection cable (drivers are supplied): E30396 IO-Link interface or E30390 IO-Link master (note the respective data sheet) · IODD import and update from ifm's homepage · Reading of IODDs via storage media · Automatic sensor identification · Graphic representation of the process values and history incl. export function · Documentation and archiving · Transferable parameter sets · Full memory plug support for IO-Link 1.1	QA0012

Certificates


Description	Order no.
Factory calibration certificate for pressure sensors and flow sensors · Measurement points, pressure sensors: 6 measurement points in 20% steps of the final value of the measuring range (acc. to ISO 9001) · Measurement points, flow sensors: 3 or 4 measurement points, distances defined depending on the measuring range (acc. to ISO 9001)	ZC0004
DAkKS calibration certificate for pressure sensors · Number of measuring points: 11-point DAkKS calibration · Measurement points: in 10 % steps of the measuring range (according to directive DAkKS-DKD-R 6-1) · Minimum measurement uncertainty [bar]: 20 µbar...140 mbar (depending on the reference pressure)	ZC0005




Accessories for pressure sensors

Type	Description	Order no.
	Protective cover · for fluid sensors with M12 connector · Housing materials: Polypropylene homopolymer	E30420
	Damping screw · for pressure sensors with M5 internal thread	E30057



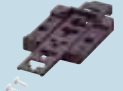


Process sensors







Type	Description	Order no.
	Damping screw · Housing materials: 1.4404	E30419
	Memory plug · Parameter memory for IO-Link sensors · Storage capacity: 2 Kbytes · Housing materials: PA PACM 12 / PET / sealing: FPM / nut: stainless steel 316L / 1.4404 / connector: TPU	E30398
	Teach button · for sensors PP0xE, PP052x, PP755x · for memory plug (E30398) · 0.9 m · Housing materials: stainless steel / PA / PMMA	E30405
	Protective cover · with lead seal option · for pressure sensors type PK · for temperature sensors type TK · for vibration sensors type VK · Housing materials: PP transparent	E30094
	USB IO-Link master · for parameter setting and analysis of units · Supported communication protocols: IO-Link (4.8, 38.4 and 230 Kbits/s) · for operation with FDT framework software "ifm Container" or software "LINERECORDER SENSOR"	E30390
	Syphon · G ¼ · Housing materials: steel	E30140
	Syphon · G ½ · Housing materials: steel	E30141
	Cable clamp fastener · for submersible pressure transmitter PS3 · Housing materials: steel / plastics	E30399
	Filter element · for submersible pressure transmitter PS3 · for fixing on the capillary tube	E30400
	Splitter box · with ventilation and terminal block · for submersible pressure transmitter PS3 · Housing materials: plastics	E30401
	Additional weight · for submersible pressure transmitter PS3 · Housing materials: stainless steel 316Ti / 1.4571	E30402
	DIN rail clip · Housing materials: stainless steel	E37340
	label tag · for fluid sensors · Housing materials: PA	E30422
	Connector · QS-G 1/8-6 · with hexagonal socket 4 mm a/f · for tube with Ø 6 mm · Housing materials: steel / PBT / Brass / aluminium	E30076
	Connector · QS-G 1/8-8 · with hexagonal socket 5 mm a/f · for tube with Ø 8 mm · Housing materials: steel / PBT / Brass / aluminium	E30077

Type	Description	Order no.
	Programming/ display unit · for EPS and IO-Link sensors · Connector · Housing materials: stainless steel 316L / 1.4404 / PC copolymer / PBT / FPM	PP2001
	Accessory cover for filter system · Housing materials: stainless steel	E30142
	Accessory cover for filter system · Housing materials: stainless steel	E30139

Accessories








Type	Description	Order no.
	IO-Link display unit · Connector · Housing materials: stainless steel / PC / PBT-GF 30 / PPS / FKM / PA66 GF30	E30391
	IO-Link display unit · IO-Link inline display for visualising process data of a connected IO-Link sensor; plug & play for ifm devices; internal updatable ifm device catalogue · Connector · Housing materials: stainless steel / PC / PBT-GF 30 / PPS / FKM	E30430
	DIN rail clip · for IO-Link display unit · Housing materials: PA / stainless steel	E30429

Adapters and accessories for adapters






Type	Description	Order no.
	Adapter · R1/8 - R1/8 · rotatable · Housing materials: Brass nickel-plated	E37350
	Flange adapter · G 1/4 · Hole spacing · 31.1 mm · Housing materials: sealing: NBR, acrylonitrile-butadiene-rubber / flange: aluminium / hollow screw: Brass	E30003
	Adapter · G 1/4 - G 1/2 · Housing materials: stainless steel / sealing: FPM	E30000
	Adapter · G 1/4 A - G 1/4 A · Housing materials: 1.4404	E30143
	Adapter · G 1/4 A - R 1/4 · Housing materials: Steel 12L13 / 1.0718 / Process connection sealing: FKM	E30427
	Adapter · G 1/4 - M20 x 1.5 · Housing materials: stainless steel / FPM	E30010















Process sensors

Type	Description	Order no.
	Adapter · G ¼ - G ½ · Housing materials: stainless steel / sealing: FPM	E30050
	Adapter · ¼" NPT - G ¼ · Housing materials: stainless steel 316Ti / 1.4571	E30058
	Adapter · G 1 - G ½ · Housing materials: stainless steel 316L / 1.4404 / sealing: FPM	E30116
	Adapter · G ¼ - G ½ · Housing materials: stainless steel 316Ti / 1.4571 / sealing: FPM	E30135
	O-ring · Ø 24 mm / Ø 28 mm · Housing materials: FKM FDA compliant	E30123
	Sealing ring · Ø 25.9 mm / Ø 29 mm · for Aseptoflex Vario adapter · Housing materials: PEEK FDA compliant	E30124
	Welding mandrel · G 1 · carries away heat during welding · Housing materials: CW614N	E30435

Flange adapters

Type	Description	Order no.
Clamp adapter · 1-1.5" · Aseptoflex Vario		
	Clamp adapter · Clamp · 1-1.5" · ISO 2852 · for units with Aseptoflex Vario adapter · Sealing by sealing ring · Housing materials: stainless steel 316L / 1.4435	E33201
	Clamp adapter · with leakage port · Clamp · 1-1.5" · with sealing ring · ISO 2852 · for units with Aseptoflex Vario adapter · Housing materials: stainless steel 316L / 1.4435	E33208
	Clamp adapter · Clamp · 1-1.5" · ISO 2852 · for units with Aseptoflex Vario adapter · Metal to metal seal · Housing materials: stainless steel 316L / 1.4435	E33701
Clamp adapter · 2" · Aseptoflex Vario		
	Clamp adapter · Clamp · 2" · ISO 2852 · for units with Aseptoflex Vario adapter · Sealing by sealing ring · Housing materials: stainless steel 316L / 1.4435	E33202
	Aseptoflex Vario adapter · with leakage port · Clamp · 2" · with sealing ring · ISO 2852 · for units with Aseptoflex Vario adapter · Housing materials: stainless steel 316L / 1.4435	E33209

Type	Description	Order no.
Clamp adapter · 2" · Aseptoflex Vario		
	Clamp adapter · Clamp · 2" · ISO 2852 · for units with Aseptoflex Vario adapter · Metal to metal seal · Housing materials: stainless steel 316L / 1.4435	E33702
Aseptic clamp connection (clamp DN32) · Aseptoflex Vario		
	Aseptic clamp ferrule with groove · Aseptic clamp connection (clamp DN32) · DIN 11864-NKS-A-35x1.5-1.4435-H4 · for DN32 pipes (according to DIN 11866, type A) · for units with Aseptoflex Vario adapter · Sealing by sealing ring · Housing materials: High-grade stainless steel 316L / 1.4435	E33243
Varivent Adapter · Type F, DN25 (1"), D = 50 · Aseptoflex Vario		
	Clamp adapter · Varivent Adapter · Varivent type F · DN25 (1"), D = 50 · for units with Aseptoflex Vario adapter · Sealing by sealing ring · Housing materials: stainless steel 316L / 1.4435	E33221
	Clamp adapter · Varivent Adapter · with leakage port · Varivent type F · DN25 (1"), D = 50 · for units with Aseptoflex Vario adapter · Sealing by sealing ring · Housing materials: stainless steel 316L / 1.4435	E33228
	Clamp adapter · Varivent Adapter · Varivent type F · DN25 (1"), D = 50 · for units with Aseptoflex Vario adapter · Metal to metal seal · Housing materials: stainless steel 316L / 1.4435	E33721
Varivent Adapter · Type N, DN40...DN150 (1.5...6"), D = 68 · Aseptoflex Vario		
	Clamp adapter · Varivent Adapter · Varivent type N · DN40...DN150 (1.5...6"), D = 68 · for units with Aseptoflex Vario adapter · Sealing by sealing ring · Housing materials: stainless steel 316L / 1.4435	E33222
	Clamp adapter · Varivent Adapter · with leakage port · Varivent type N · DN40 (1.5"), D = 68 · for units with Aseptoflex Vario adapter · Sealing by sealing ring · Housing materials: stainless steel 316L / 1.4435	E33229
	Clamp adapter · Varivent Adapter · Varivent type N · DN40...DN150 (1.5...6"), D = 68 · for units with Aseptoflex Vario adapter · Metal to metal seal · Housing materials: stainless steel 316L / 1.4435	E33722
Hygienic pipe fitting · DN32 (1.25") · Aseptoflex Vario		
	Pipe fitting · Hygienic pipe fitting · Hygienic pipe fitting · DN32 (1.25") · DIN 11851 · for units with Aseptoflex Vario adapter · Sealing by sealing ring · Housing materials: stainless steel 316L / 1.4435	E33211
	Pipe fitting · Hygienic pipe fitting · Hygienic pipe fitting · DN32 (1.25") · DIN 11851 · for units with Aseptoflex Vario adapter · Metal to metal seal · Housing materials: stainless steel 316L / 1.4435	E33711
Hygienic pipe fitting · DN40 (1.5") · Aseptoflex Vario		
	Pipe fitting · Hygienic pipe fitting · Hygienic pipe fitting · DN40 (1.5") · DIN 11851 · for units with Aseptoflex Vario adapter · Sealing by sealing ring · Housing materials: stainless steel 316L / 1.4435	E33212
	Pipe fitting · Hygienic pipe fitting · Hygienic pipe fitting · DN40 (1.5") · DIN 11851 · for units with Aseptoflex Vario adapter · Metal to metal seal · Housing materials: stainless steel 316L / 1.4435	E33712



Process sensors

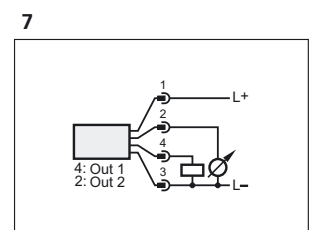
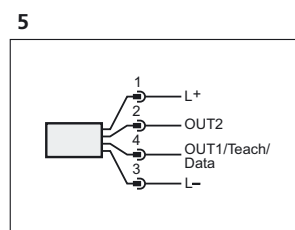
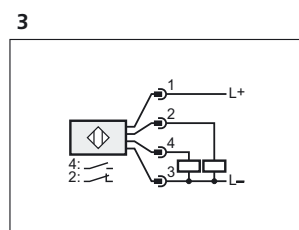
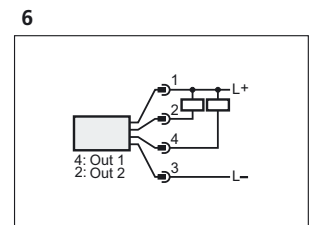
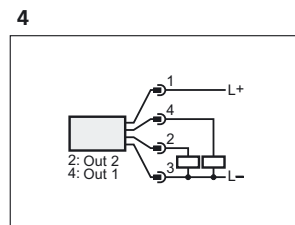
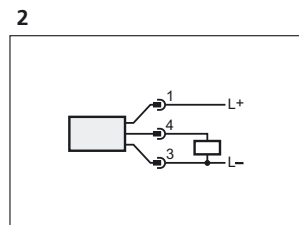
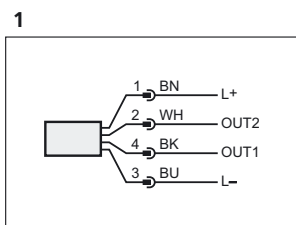
Type	Description	Order no.
Hygienic pipe fitting · DN50 (2") · Aseptoflex Vario		
	Pipe fitting · Hygienic pipe fitting · Hygienic pipe fitting · DN50 (2") · DIN 11851 · for units with Aseptoflex Vario adapter · Sealing by sealing ring · Housing materials: stainless steel 316L / 1.4435	E33213
	Pipe fitting · Hygienic pipe fitting · Hygienic pipe fitting · DN50 (2") · DIN 11851 · for units with Aseptoflex Vario adapter · Metal to metal seal · Housing materials: stainless steel 316L / 1.4435	E33713
Pipe fitting · DN/OD33.7 · Aseptoflex Vario		
	Pipe fitting · Pipe fitting · DIN 11864-1-A-BS · for ISO pipes (series B) · for units with Aseptoflex Vario adapter · Sealing by sealing ring · Housing materials: stainless steel 316L / 1.4435	E33304
SMS pipe fitting · DN40 (1.5") · Aseptoflex Vario		
	Pipe fitting · SMS pipe fitting · DN40 (1.5") · SMS · for units with Aseptoflex Vario adapter · Metal to metal seal · Housing materials: stainless steel 316L / 1.4435	E33731
SMS pipe fitting · DN50 (2") · Aseptoflex Vario		
	Pipe fitting · SMS pipe fitting · DN50 (2") · SMS · for units with Aseptoflex Vario adapter · Metal to metal seal · Housing materials: stainless steel 316L / 1.4435	E33732
DRD adapter · D65 · Aseptoflex Vario		
	Flange adapter · DRD adapter · flange · DRD · D = 65 · for units with Aseptoflex Vario adapter · Sealing by sealing ring · Housing materials: stainless steel 316L / 1.4435	E33242
universal process adapter · Rd52 · Aseptoflex Vario		
	Pipe fitting · universal process adapter · for units with Aseptoflex Vario adapter · Sealing by sealing ring · Housing materials: stainless steel 316L / 1.4435	E33340
Welding adapter · D50 · Aseptoflex Vario		
	Welding adapter · Ø 50 mm · for units with Aseptoflex Vario adapter · Sealing by sealing ring · Housing materials: stainless steel 316L / 1.4435	E30122
	Welding adapter · Ø 50 mm · with leakage port · for units with Aseptoflex Vario adapter · Sealing by sealing ring · Housing materials: stainless steel 316L / 1.4435	E30130
Aseptoflex Vario · Aseptoflex Vario		
	sealing plug · Aseptoflex Vario · Housing materials: adapter: stainless steel 316L / 1.4435 / sealing ring: FKM	E30128

Type	Description	Order no.
Clamp adapter · 1-1.5" · G 1		
	Clamp adapter · Clamp · 1-1.5" · ISO 2852 · for units with G 1 adaptation · Housing materials: stainless steel 316L / 1.4435	E33601
Clamp adapter · 1-1.5" · G 1		
	Clamp adapter · Clamp · 1-1.5" · ISO 2852 · for units with G 1 adaptation · Housing materials: High-grade stainless steel 316L / 1.4435	E33602
Hygienic pipe fitting · DN40 (1.5") · G 1		
	Pipe fitting · Hygienic pipe fitting · Hygienic pipe fitting · DN40 (1.5") · DIN 11851 · for units with G 1 adaptation · Housing materials: stainless steel 316L / 1.4435	E33612
Welding adapter · D50 · G 1		
	Welding adapter · G 1 - Ø 50 mm · Housing materials: stainless steel 316L / 1.4404	E30013
	Welding adapter · G 1 - Ø 50 mm · Housing materials: stainless steel 316L / 1.4404 / O-ring: FKM / O-ring: EPDM	E30072
G 1		
	sealing plug · G 1 · Housing materials: high-grade stainless steel	E30070
Welding adapter · D50 · G ¾		
	Welding adapter · G ¾ - Ø 50 mm · Housing materials: stainless steel 316L / 1.4404	E30009

Wiring diagrams

Core colours

- BK black
- BN brown
- BU blue
- WH white
- GY grey
- GN green

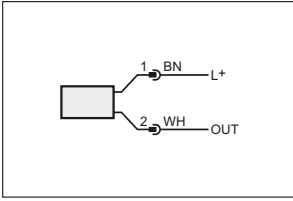




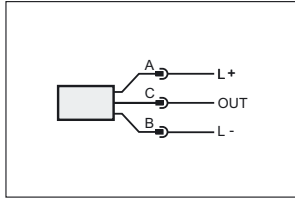
Process sensors

Wiring diagrams

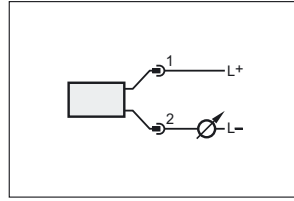
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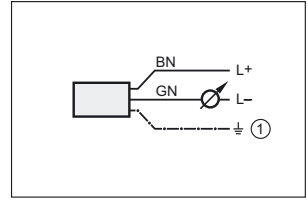
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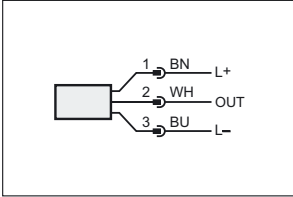
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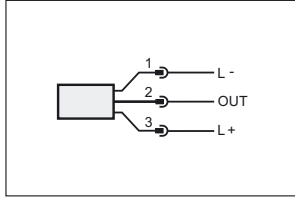
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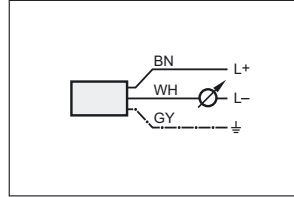
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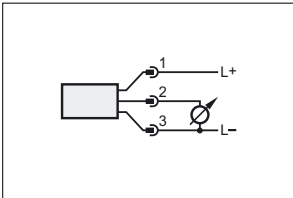


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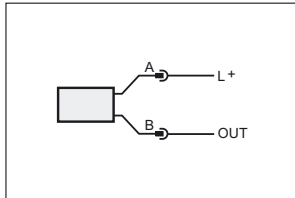


1: screen (connected to the housing)

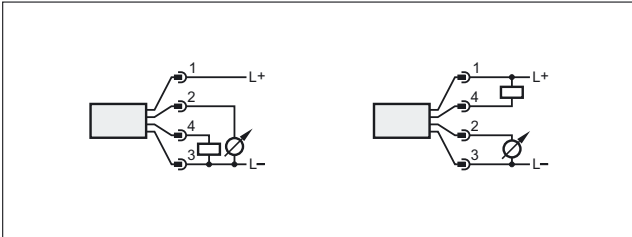
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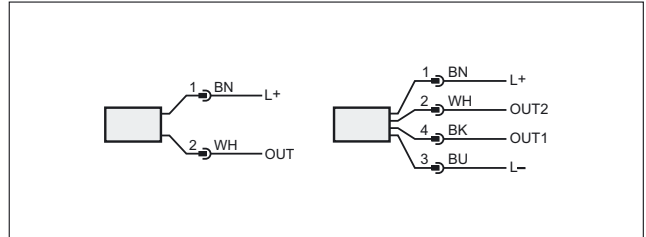
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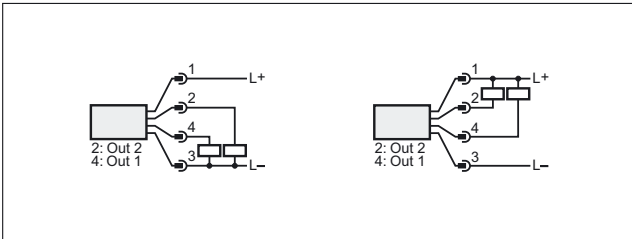
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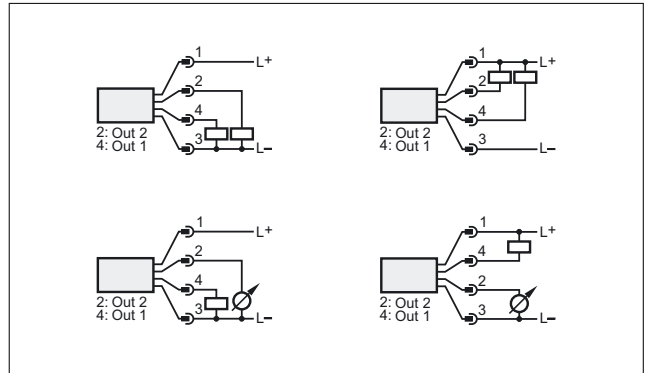
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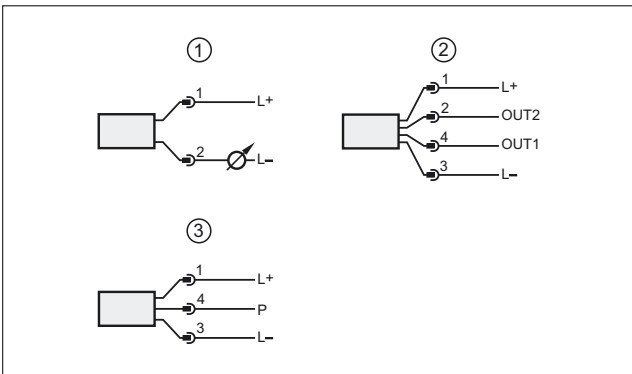
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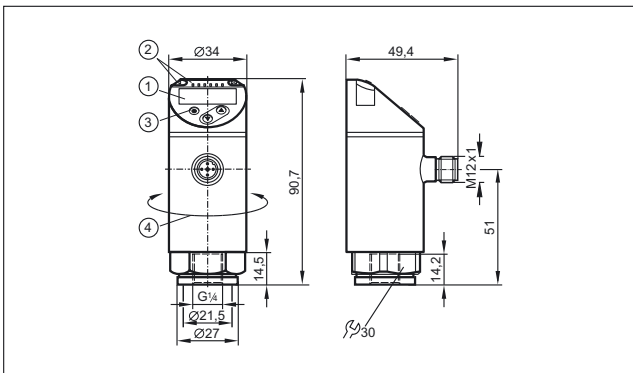
19



1: connection for 2-wire operation, 2: connection for 3-wire operation, 3: connection for IO-Link parameter setting (P = communication via IO-Link)

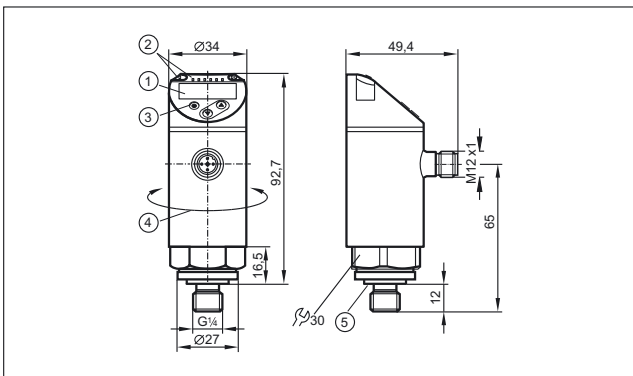
Scale drawings / drawing no. – CAD download: www.ifm.com

1



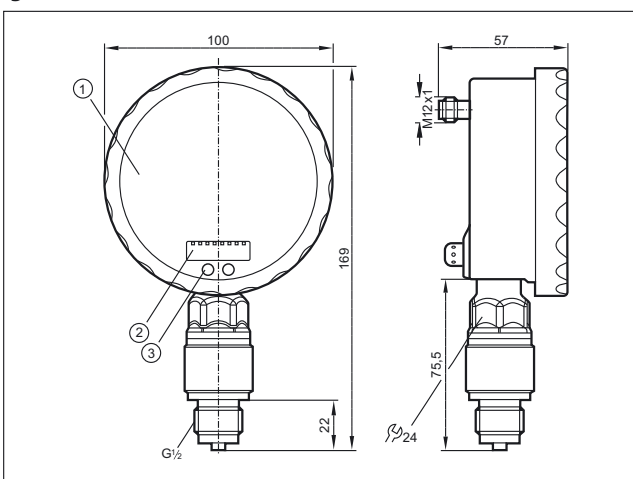
1: 4-digit alphanumeric display / alternating indication of red and green, 2: LEDs (display unit / switching status), 3: Programming button, 4: Upper part of the housing can be rotated by 345°

2



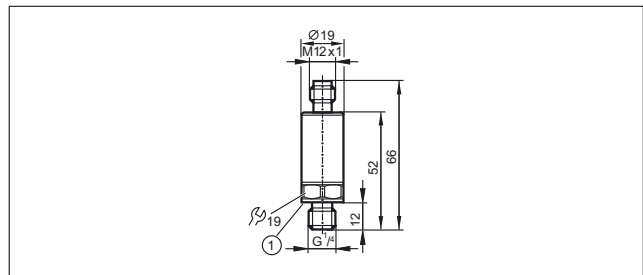
1: 4-digit alphanumeric display / alternating indication of red and green, 2: LEDs (display unit / switching status), 3: Programming button, 4: Upper part of the housing can be rotated by 345°, 5: sealing FKM / DIN 3869

3



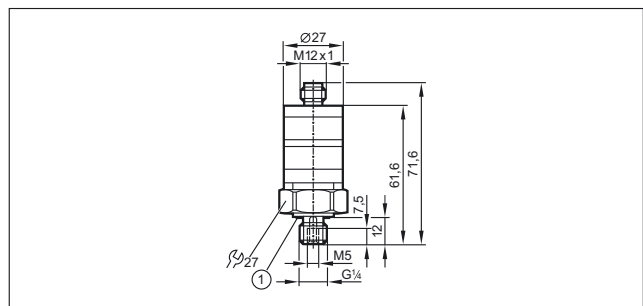
1: Analogue display, 2: 4-digit alphanumeric display, 3: Touch button (programming button)

4

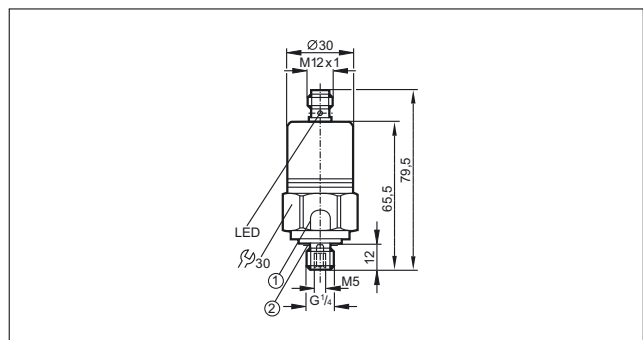


1: sealing

5

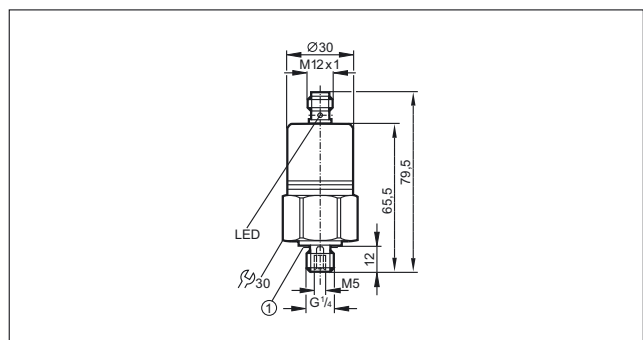


6



1: Pressure relief mechanism, No mechanical force must be exerted on the pressure relief mechanism., 2: sealing FPM / DIN 3869-14

7



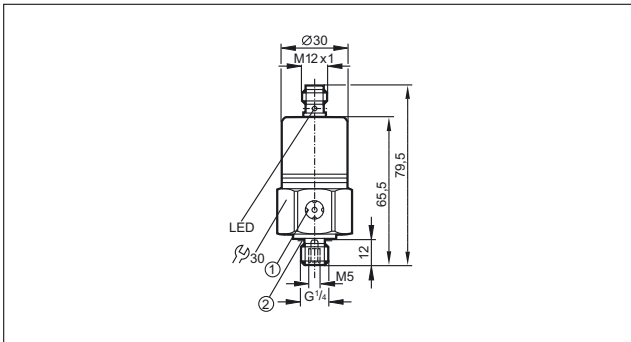
1: sealing FPM / DIN 3869-14



Process sensors

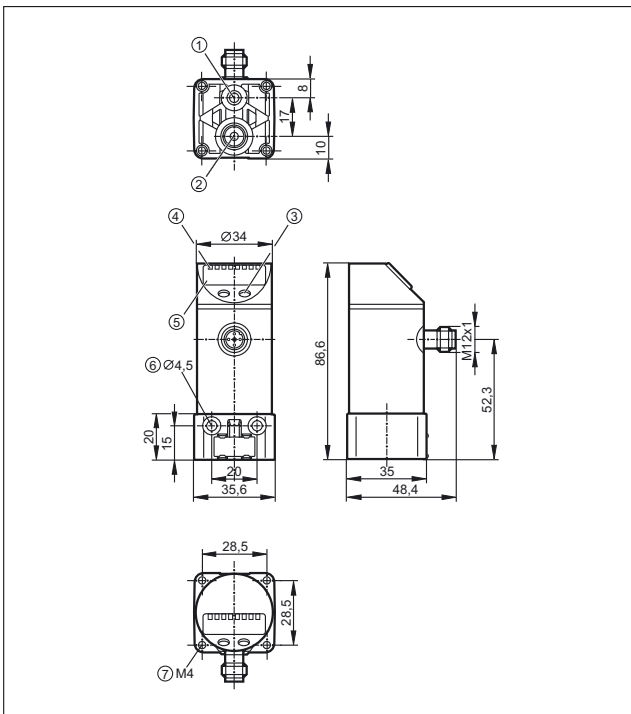
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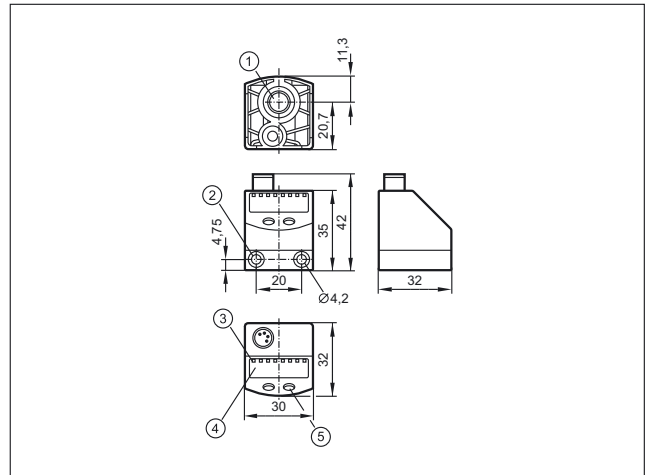
1: ventilation, 2: sealing FPM / DIN 3869-14

9



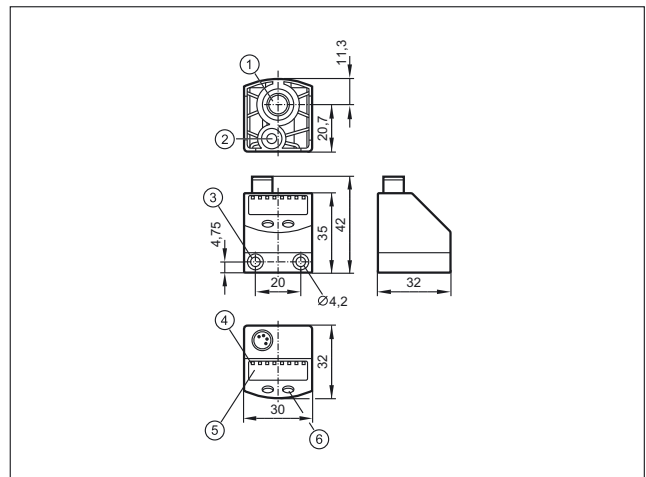
1: ventilation connection M5; max. tightening torque 2.5 Nm, 2: main pressure connection G 1/8; tightening torque max. 8 Nm, 3: Programming button, 4: LEDs (display unit / switching status), 5: 4-digit alphanumeric display, 6: for mounting screw M4; max. tightening torque 2.5 Nm, 7: for mounting screw M4; max. tightening torque 2.5 Nm

10



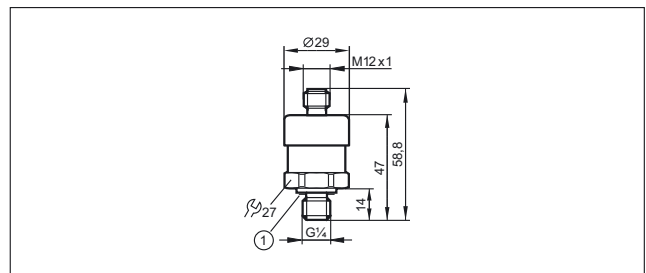
1: main pressure connection G 1/8; tightening torque max. 8 Nm, thread length max: 7.5 mm, 2: for mounting screw M4; max. tightening torque 2.5 Nm, 3: LEDs (display unit / switching status), 4: 4-digit alphanumeric display, 5: Programming button

11



1: Main pressure connection G 1/8; Tightening torque max. 8 Nm, insertion depth max. 7.5 mm, 2: Auxiliary pressure connection M5; Tightening torque max. 2.5 Nm, insertion depth max. 7.5 mm, 3: for mounting screw M4; max. tightening torque 2.5 Nm, 4: LEDs (display unit / switching status), 5: 4-digit alphanumeric display, 6: Programming button

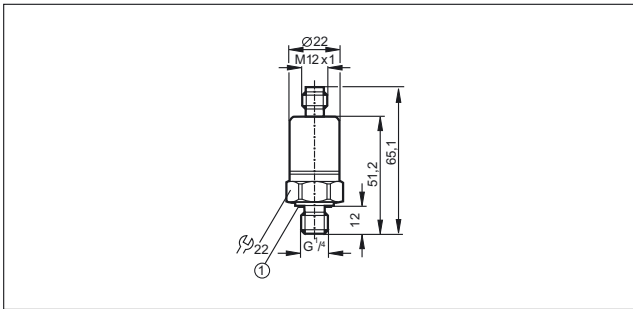
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sealing

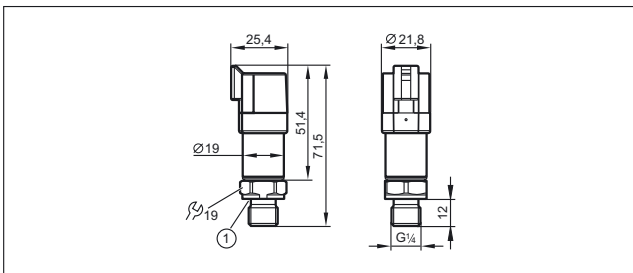
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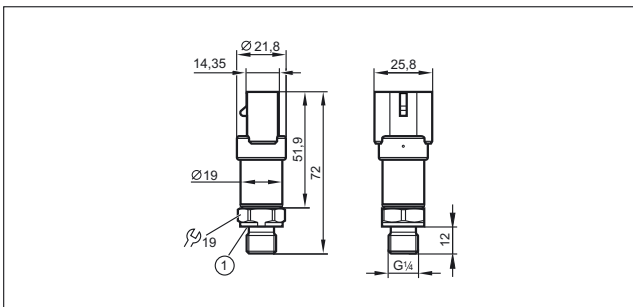
1: FKM seal / DIN 3869-14, tightening torque 25 Nm

14



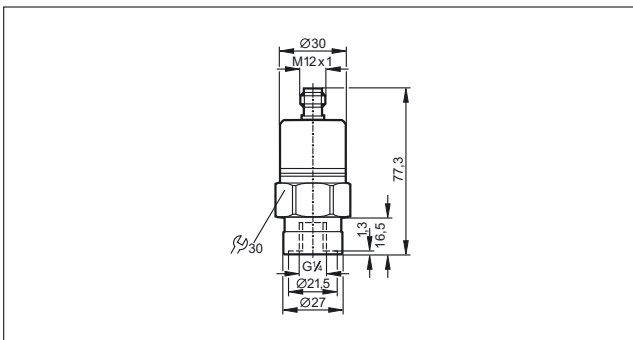
1: sealing FKM / DIN 3869

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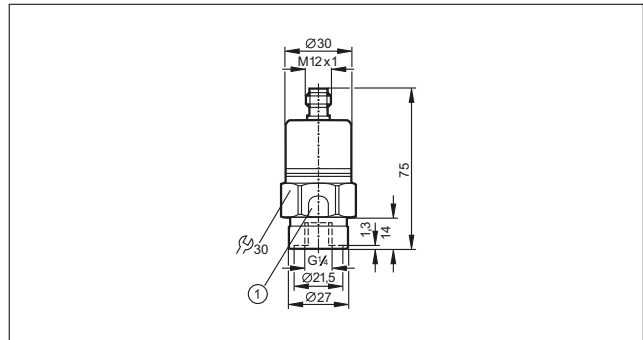


1: sealing FKM / DIN 3869

16

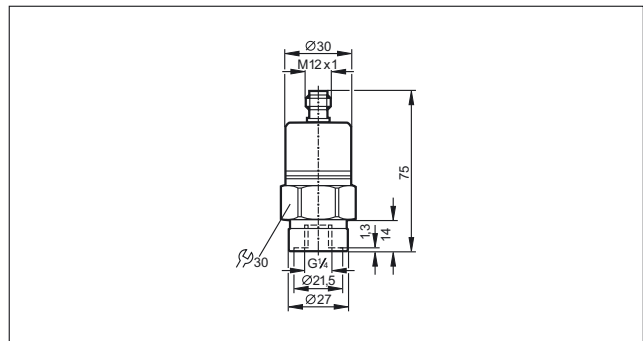


17

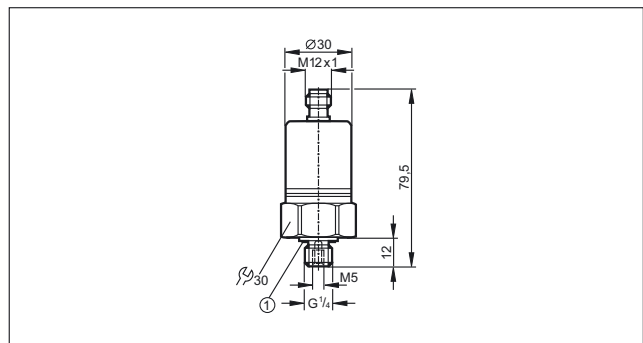


1: Pressure relief mechanism, No mechanical force must be exerted on the pressure relief mechanism.

18

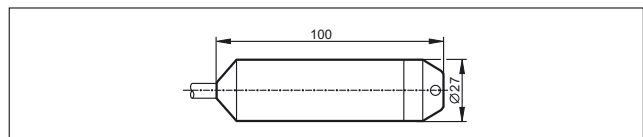


19

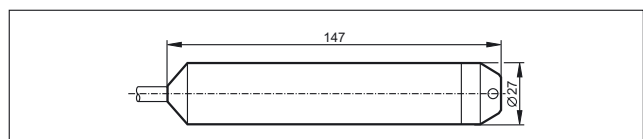


1: sealing FPM / DIN 3869-14

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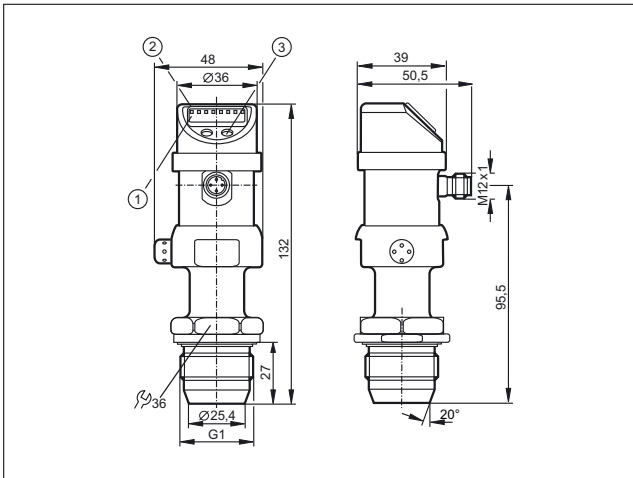




Process sensors

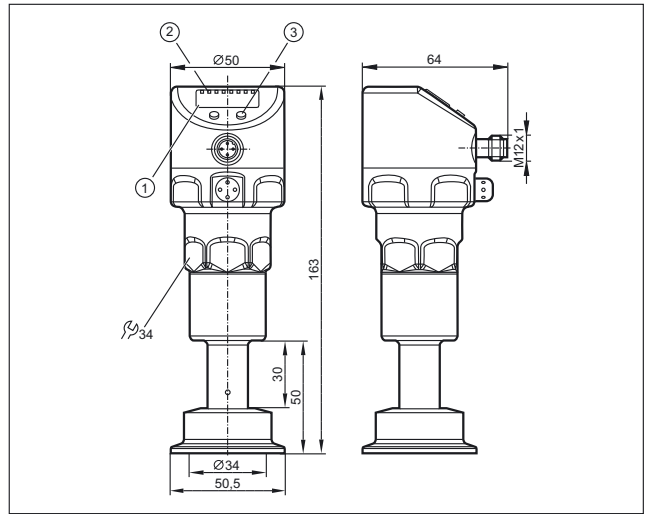
Scale drawings / drawing no. – CAD download: www.ifm.com

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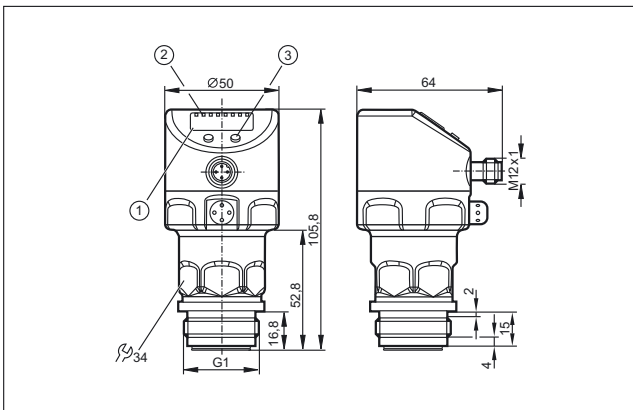
1: 4-digit alphanumeric display, 2: status LEDs, 3: Programming button

25



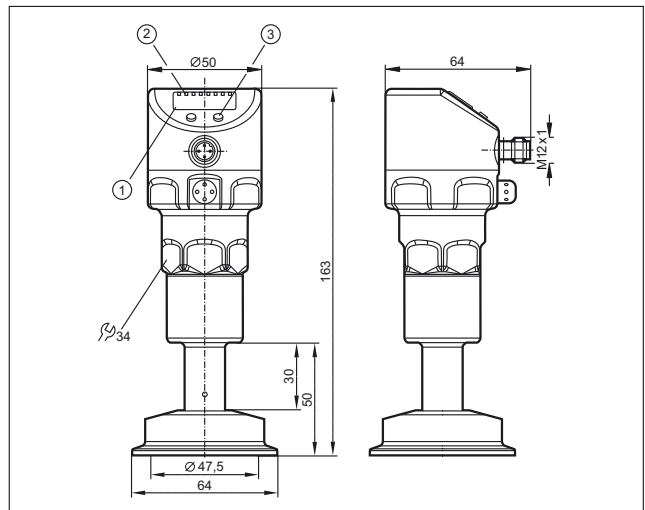
1: 4-digit alphanumeric display, 2: status LEDs, 3: Programming button

23

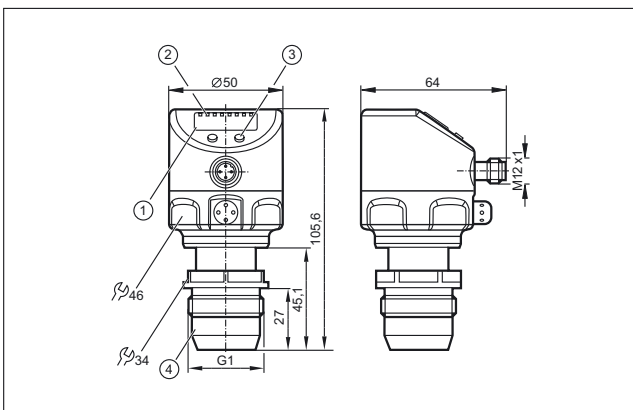


1: 4-digit alphanumeric display, 2: status LEDs, 3: Programming button

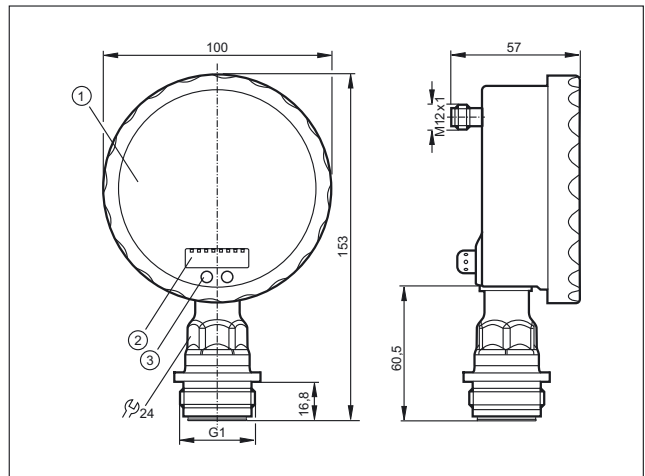
26



24



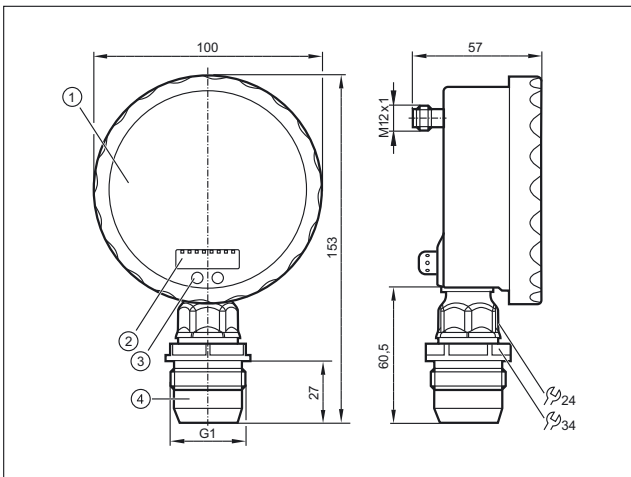
27



1: Analogue display, 2: 4-digit alphanumeric display, 3: Programming button

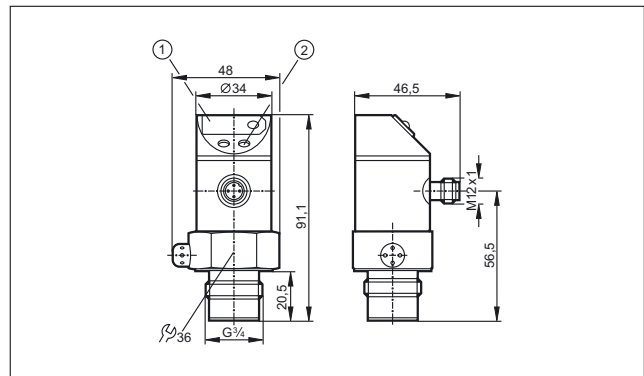
Scale drawings / drawing no. – CAD download: www.ifm.com

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1: Analogue display, 2: 4-digit alphanumeric display, 3: Touch button (programming button), 4: Sealing cone G1 male, Attention: The unit must only be installed in a process connection for G1 sealing cone! The G1 male sealing cone of the unit is only suited for adapters with metal end stop!

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1: 7-segment LED display, 2: Programming button