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PA1140 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range -1…1 bar -14…14 Psi -1…1 kgf/cm2	 CE RoHS
Applications	Negative pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO / NC programmable, 4…20mA or 0…10V
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	4
Burst pressure [bar]	5
Analogue output OUT2	4…20 mA / 0…10V
Overload of analogue output[Ohm]	4…20 mA:Max. (Ub-10V) x 50 / 0…10V:Min. 2000
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	-0.98…1bar -0.99…0.99bar 0.01bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: Current / Voltage output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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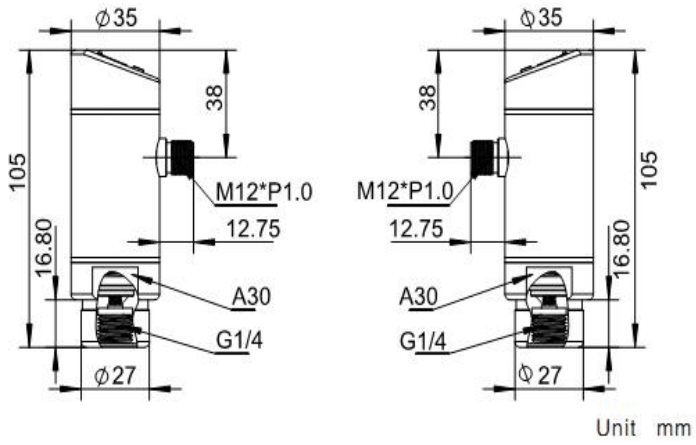
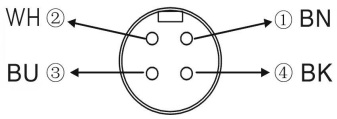
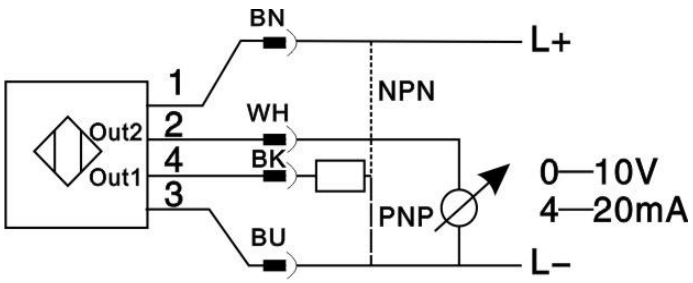
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color	
	

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PA1141 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…2 bar 0…29 Psi 0…2 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO / NC programmable, 4…20mA or 0…10V
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	4
Burst pressure [bar]	8
Analogue output OUT2	4…20 mA / 0…10V
Overload of analogue output[Ohm]	4…20 mA:Max. (Ub-10V) x 50 / 0…10V:Min. 2000
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	0.02…2bar 0.01…1.99 bar 0.01bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: Current / Voltage output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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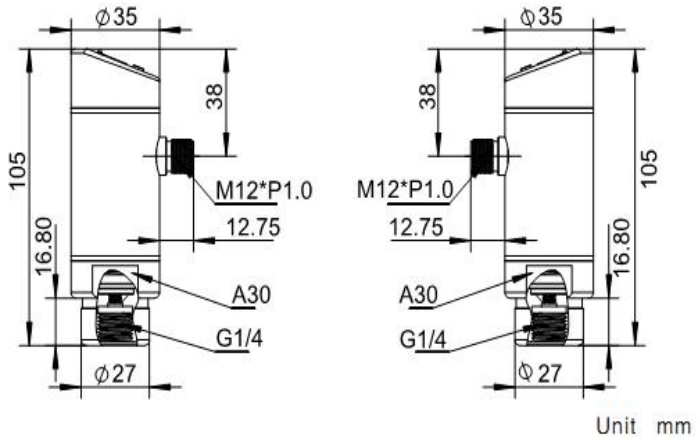
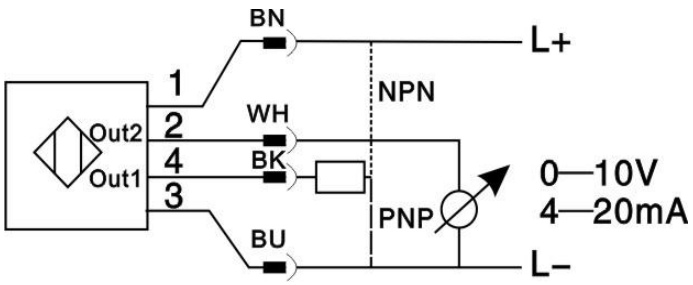
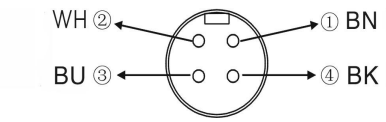
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color	

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PA1142 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…5 bar 0…73 Psi 0…5 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO / NC programmable, 4…20mA or 0…10V
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	10
Burst pressure [bar]	20
Analogue output OUT2	4…20 mA / 0…10V
Overload of analogue output[Ohm]	4…20 mA:Max. (Ub-10V) x 50 / 0…10V:Min. 2000
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	0.04…5bar 0.02…4.98 bar 0.02bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: Current / Voltage output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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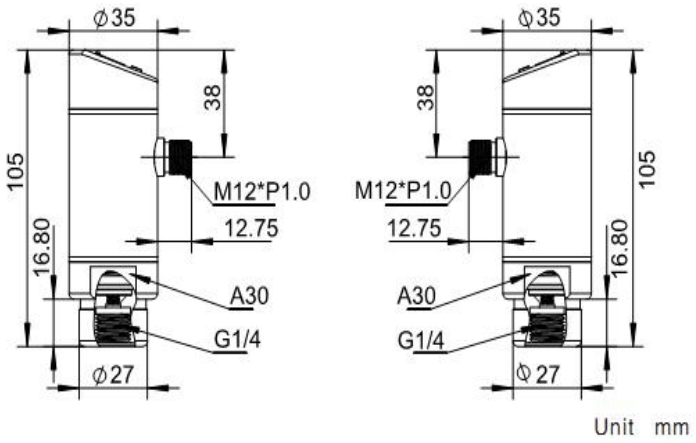
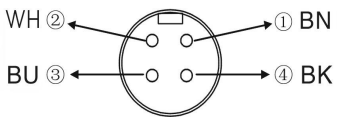
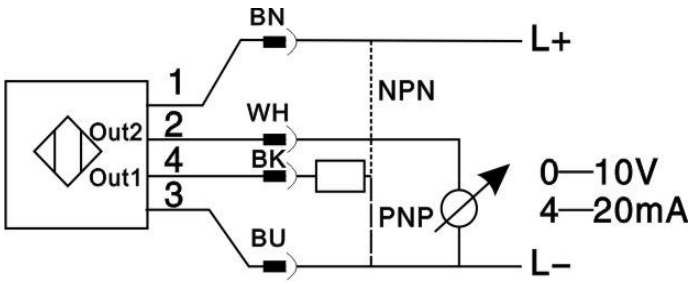
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color 	

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PA1143 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…10 bar 2…145 Psi 0…10 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable, 4…20mA or 0…10V
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	20
Burst pressure [bar]	35
Analogue output OUT2	4…20 mA / 0…10V
Overload of analogue output[Ohm]	4…20 mA:Max. (Ub-10V) x 50 / 0…10V:Min. 2000
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	0.1…10bar 0.05…9.95 bar 0.05bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: Current / Voltage output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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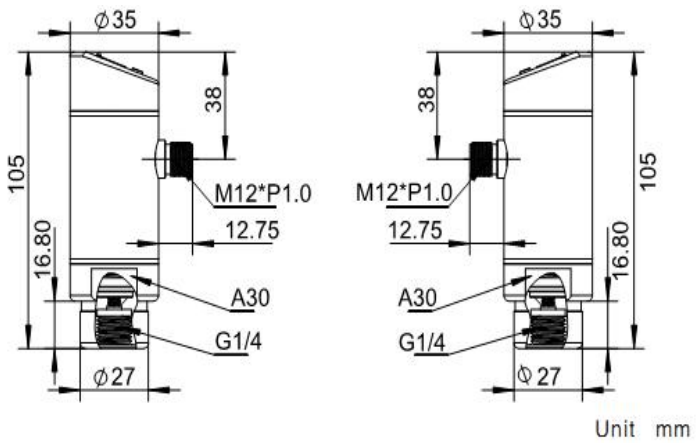
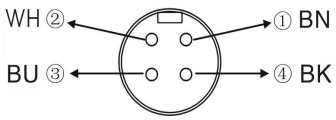
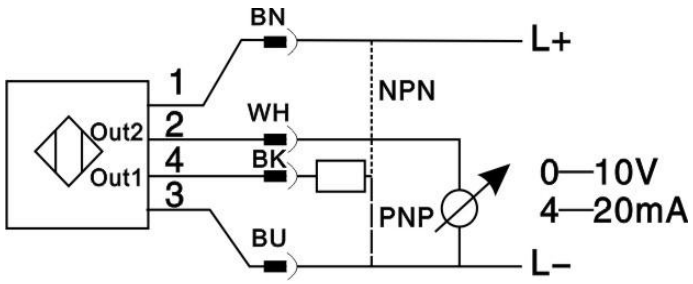
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color 	

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PA1144 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…20 bar 0…290 Psi 0…20 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable, 4…20mA or 0…10V
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	40
Burst pressure [bar]	60
Analogue output OUT2	4…20 mA / 0…10V
Overload of analogue output[Ohm]	4…20 mA:Max. (Ub-10V) x 50 / 0…10V:Min. 2000
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	0.2…20bar 0.1…19.9 bar 0.1bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: Current / Voltage output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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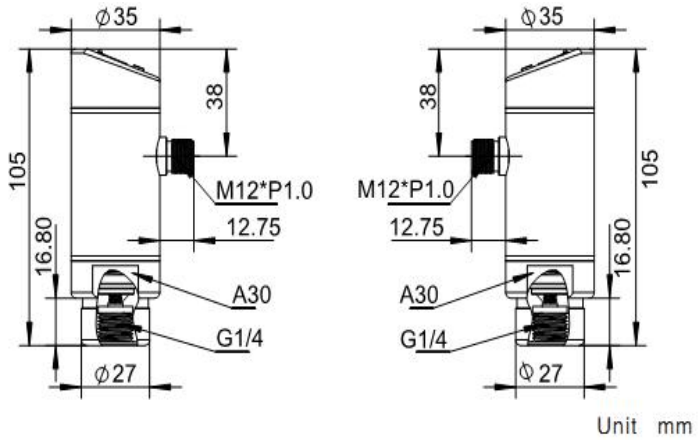
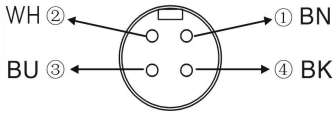
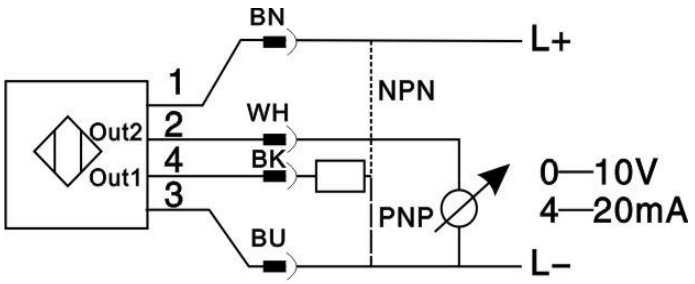
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color	
	

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PA1145 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…50 bar 0…725 Psi 0…50 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable, 4…20mA or 0…10V
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	100
Burst pressure [bar]	140
Analogue output OUT2	4…20 mA / 0…10V
Overload of analogue output[Ohm]	4…20 mA:Max. (Ub-10V) x 50 / 0…10V:Min. 2000
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	0.4…50bar 0.2…49.8 bar 0.2bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: Current / Voltage output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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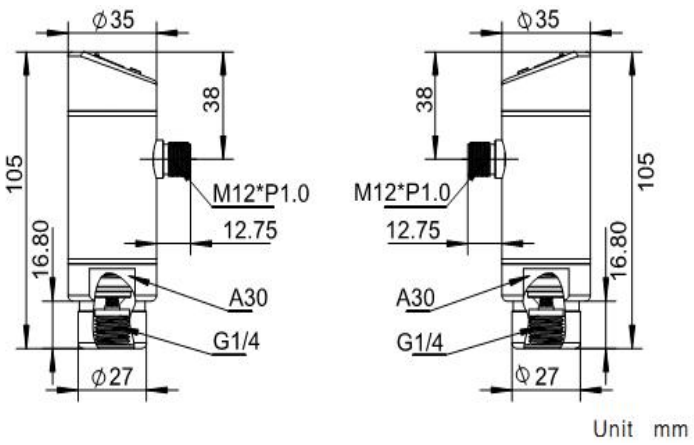
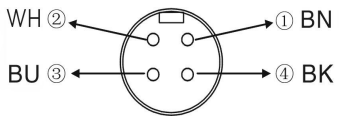
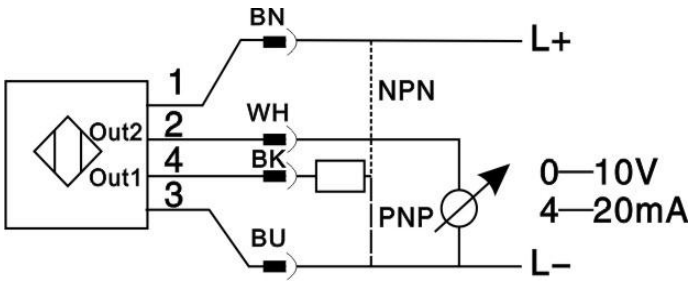
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color 	

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PA1146 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…100 bar 0…1450 Psi 0…100 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO / NC programmable, 4…20mA or 0…10V
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	150
Burst pressure [bar]	300
Analogue output OUT2	4…20 mA / 0…10V
Overload of analogue output[Ohm]	4…20 mA:Max. (Ub-10V) x 50 / 0…10V:Min. 2000
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	1…100bar 0.5…99.5 bar 0.5bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: Current / Voltage output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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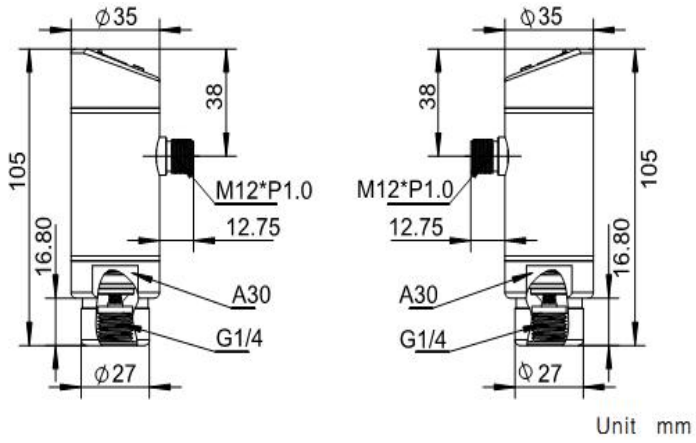
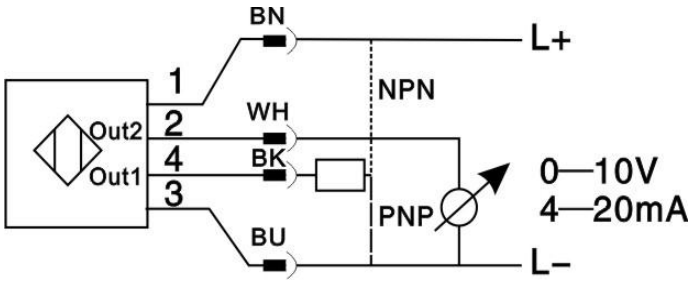
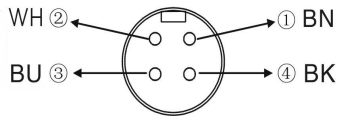
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color	

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PA1147 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…200 bar 0…2900 Psi 0…203 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable, 4…20mA or 0…10V
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	300
Burst pressure [bar]	400
Analogue output OUT2	4…20 mA / 0…10V
Overload of analogue output[Ohm]	4…20 mA:Max. (Ub-10V) x 50 / 0…10V:Min. 2000
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	2…200bar 1…199bar 1bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: Current / Voltage output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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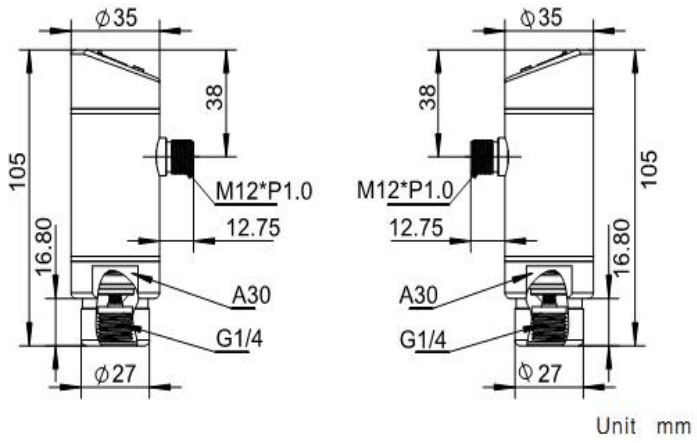
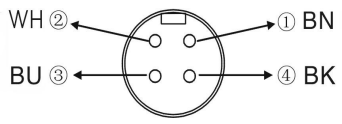
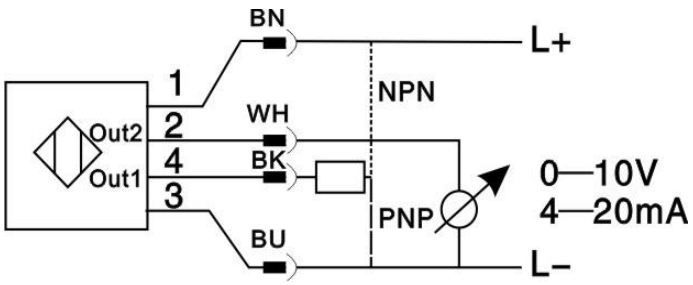
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED	2 red LED
System pressure, function LED	3 digit segment
Connection	M12 socket
Wiring	
Core color 	

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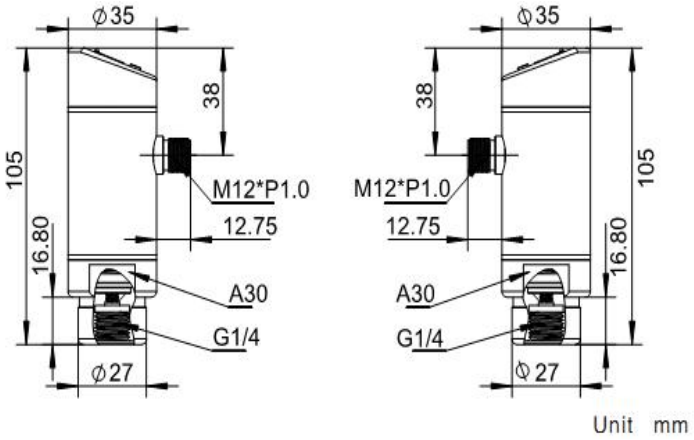
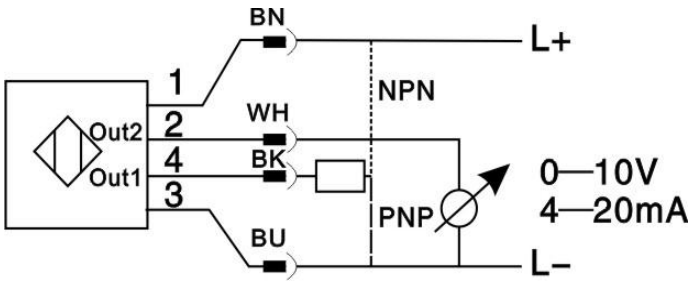
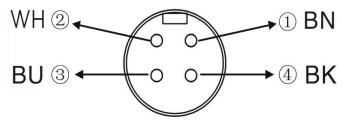
PA1148 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…250 bar 0…3625 Psi 0…255 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable, 4…20mA or 0…10V
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	375
Burst pressure [bar]	500
Analogue output OUT2	4…20 mA / 0…10V
Overload of analogue output[Ohm]	4…20 mA:Max. (Ub-10V) x 50 / 0…10V:Min. 2000
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	2…250bar 1…249bar 1bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: Current / Voltage output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color 	

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PA1149 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…400 bar 0…5800 Psi 0…408 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO / NC programmable, 4…20mA or 0…10V
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	500
Burst pressure [bar]	650
Analogue output OUT2	4…20 mA / 0…10V
Overload of analogue output[Ohm]	4…20 mA:Max. (Ub-10V) x 50 / 0…10V:Min. 2000
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	4…400bar 2…398bar 2bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: Current / Voltage output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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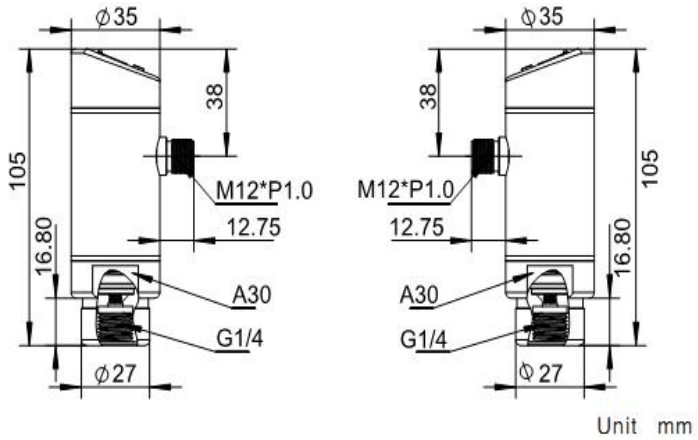
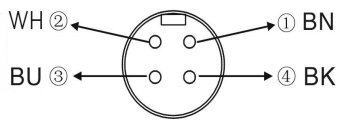
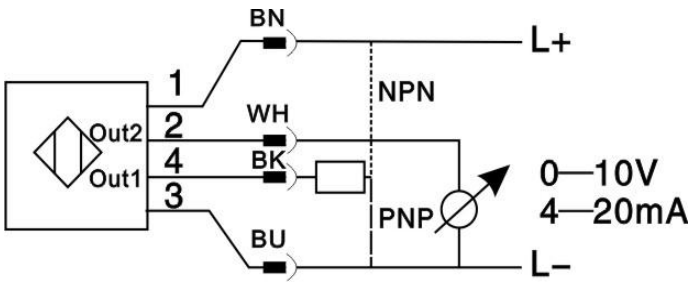
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color 	

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PA1150 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…600 bar 0…8700 Psi 0…612 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable, 4…20mA or 0…10V
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	880
Burst pressure [bar]	880
Analogue output OUT2	4…20 mA / 0…10V
Overload of analogue output[Ohm]	4…20 mA:Max. (Ub-10V) x 50 / 0…10V:Min. 2000
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	4…600bar 2…598bar 2bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: Current / Voltage output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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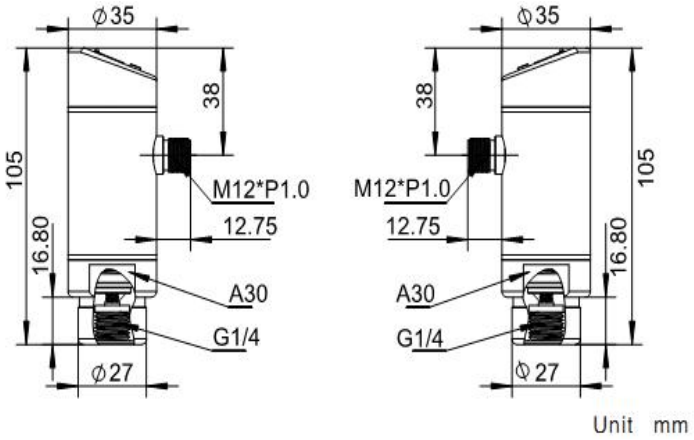
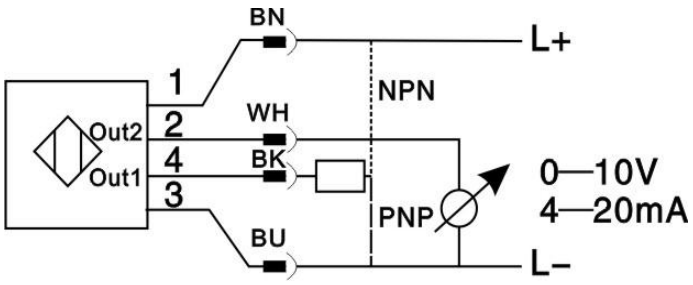
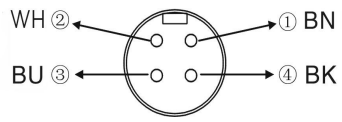
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color 	

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PA1160 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range -1…1 bar -14…14 Psi -1…1 kgf/cm2	 CE RoHS
Applications	Negative pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	4
Burst pressure [bar]	5
Analogue output OUT2	NPN/PNP
Overload of analogue output[Ohm]	300
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	-0.98…1bar -0.99…0.99 bar 0.01bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: NPN / PNP output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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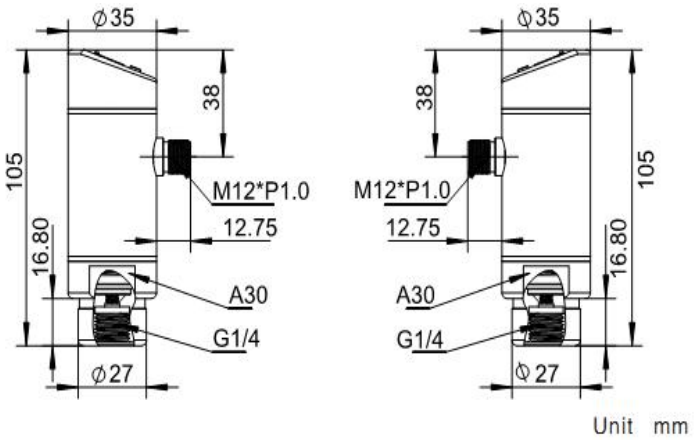
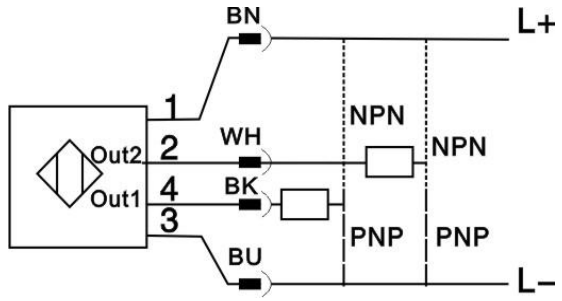
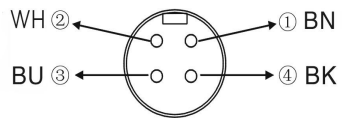
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color 	

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PA1161 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…2 bar 0…29 Psi 0…2 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	4
Burst pressure [bar]	8
Analogue output OUT2	NPN/PNP
Overload of analogue output[Ohm]	300
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	0.02…2bar 0.01…1.99 bar 0.01bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: NPN / PNP output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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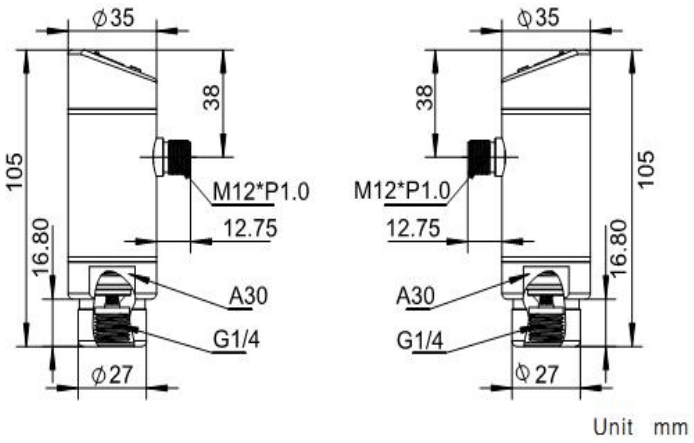
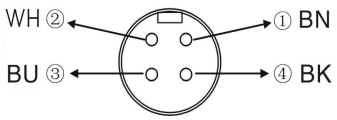
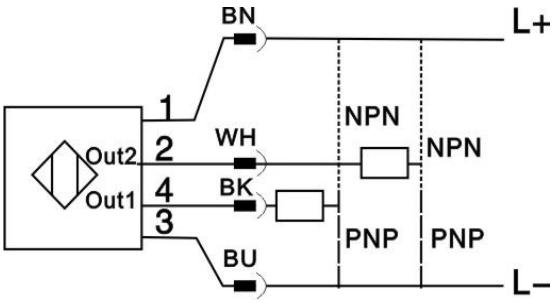
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color 	

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PA1162 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…5 bar 0…73 Psi 0…5 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	10
Burst pressure [bar]	20
Analogue output OUT2	NPN/PNP
Overload of analogue output[Ohm]	300
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range Switching point (SP) Reset point (rP) In steps of	 0.04…5bar 0.02…4.98 bar 0.02bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: NPN / PNP output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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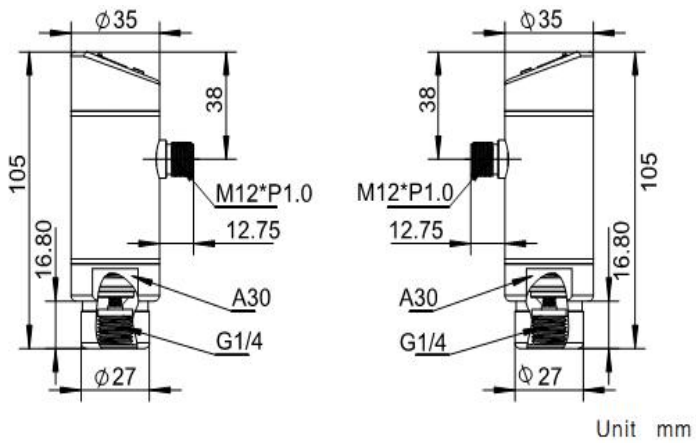
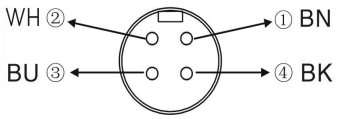
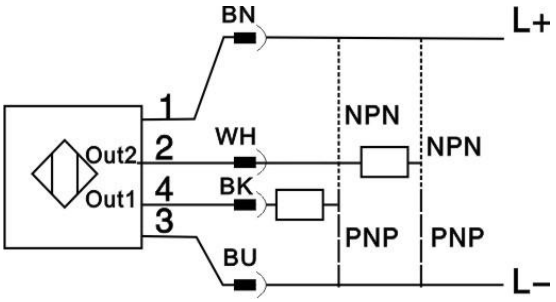
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color 	

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PA1163 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…10 bar 0…145 Psi 0…10 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	20
Burst pressure [bar]	35
Analogue output OUT2	NPN/PNP
Overload of analogue output[Ohm]	300
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	0.1…10bar 0.05…9.95 bar 0.05bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: NPN / PNP output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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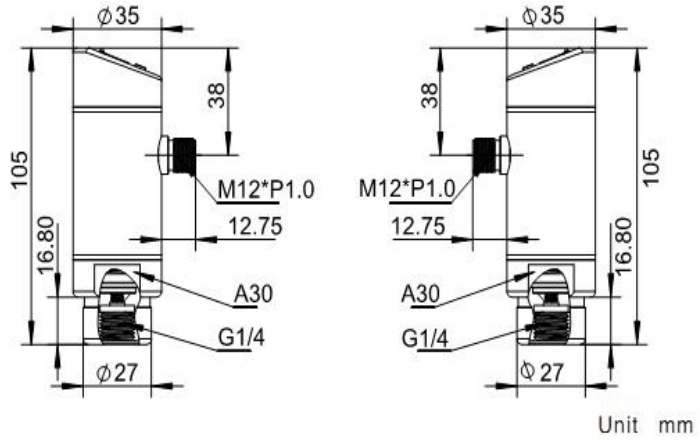
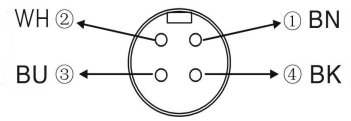
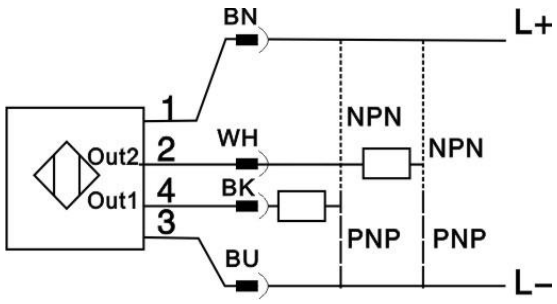
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color 	

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PA1164 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…20 bar 0…290 Psi 0…20 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	40
Burst pressure [bar]	60
Analogue output OUT2	NPN/PNP
Overload of analogue output[Ohm]	300
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	0.2…20bar 0.1…19.9 bar 0.1bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: NPN / PNP output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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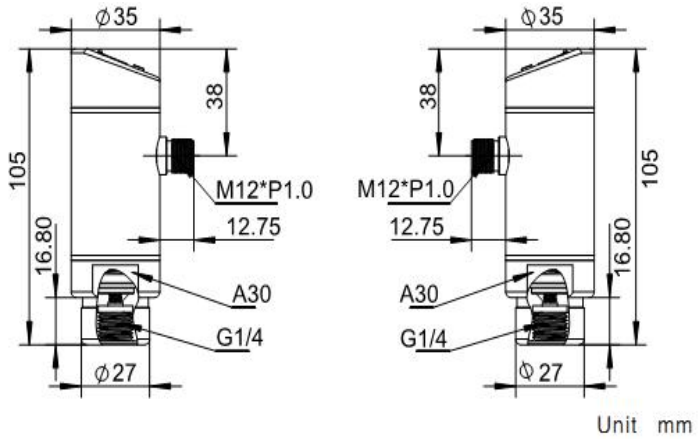
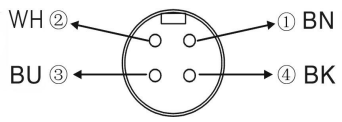
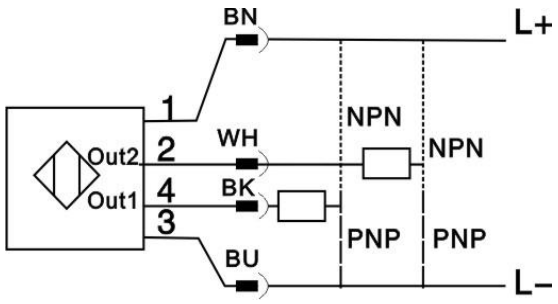
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color 	

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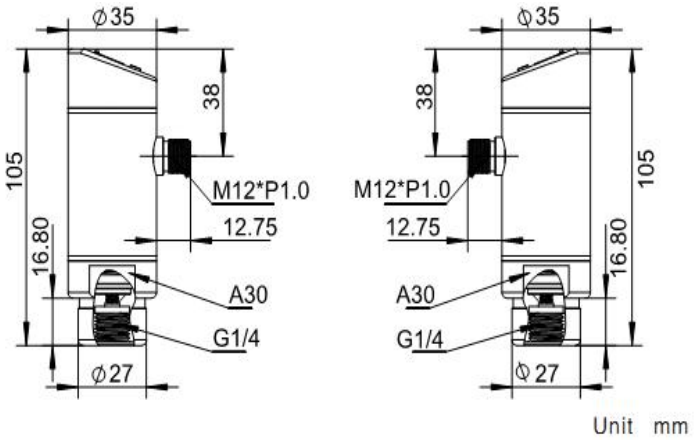
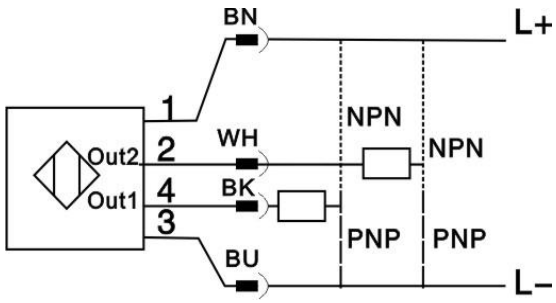
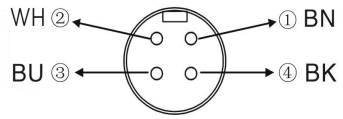
PA1165 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…50 bar 0…725 Psi 0…50 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	100
Burst pressure [bar]	140
Analogue output OUT2	NPN/PNP
Overload of analogue output[Ohm]	300
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	0.4…50bar 0.2…49.8 bar 0.2bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: NPN / PNP output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color 	

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PA1166 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…100 bar 0…1450 Psi 0…100 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	150
Burst pressure [bar]	300
Analogue output OUT2	NPN/PNP
Overload of analogue output[Ohm]	300
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	1…100bar 0.5…99.5 bar 0.5bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: NPN / PNP output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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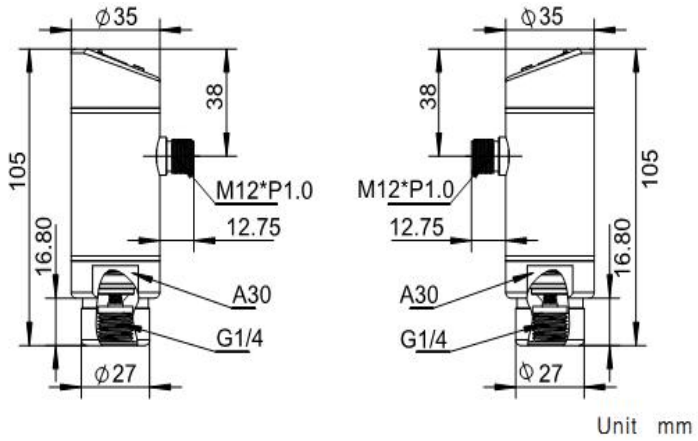
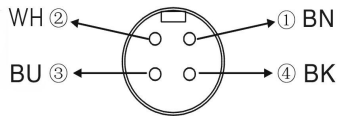
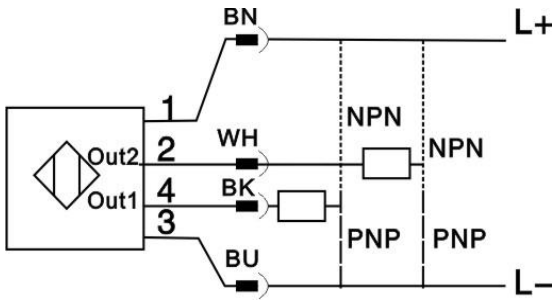
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color 	

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PA1167 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…200 bar 0…2900 Psi 0…203 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	300
Burst pressure [bar]	400
Analogue output OUT2	NPN/PNP
Overload of analogue output[Ohm]	300
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	2…200bar 1…199 bar 1bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: NPN / PNP output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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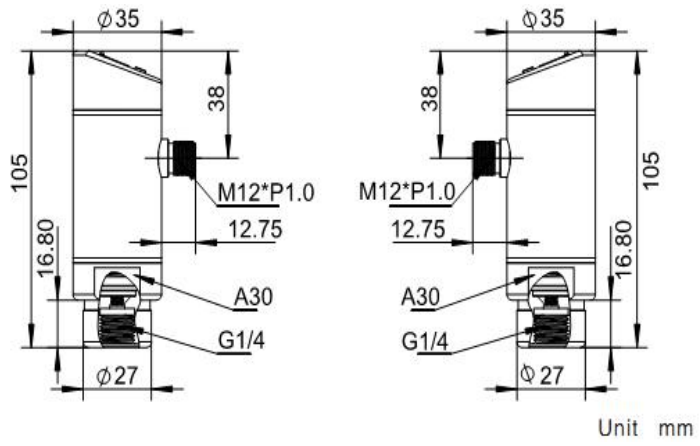
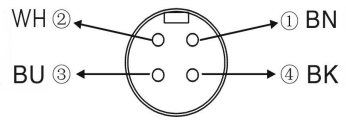
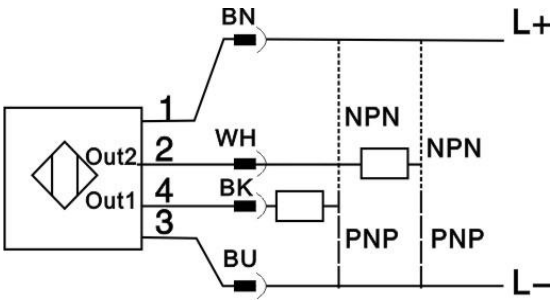
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color 	

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PA1168 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…250 bar 0…3625 Psi 0…255 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	375
Burst pressure [bar]	500
Analogue output OUT2	NPN/PNP
Overload of analogue output[Ohm]	300
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	2…250bar 1…249 bar 1bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: NPN / PNP output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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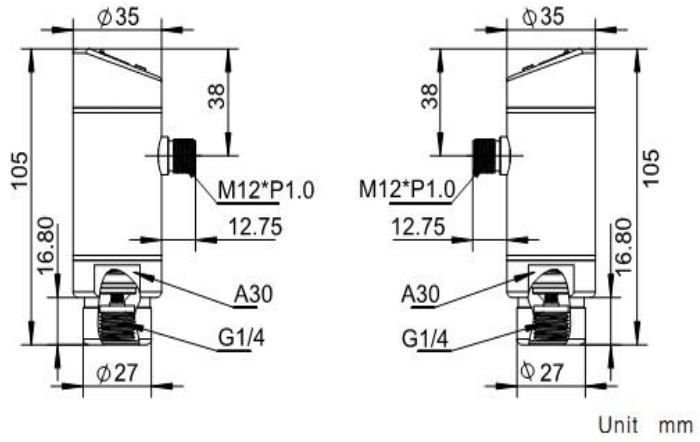
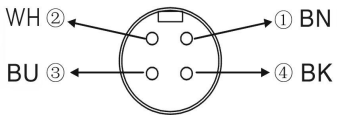
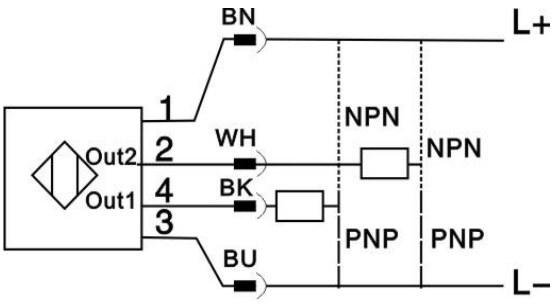
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color 	

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PA1169 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…400 bar 0…5800 Psi 0…408 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	500
Burst pressure [bar]	650
Analogue output OUT2	NPN/PNP
Overload of analogue output[Ohm]	300
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	4…400bar 2…398 bar 2bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: NPN / PNP output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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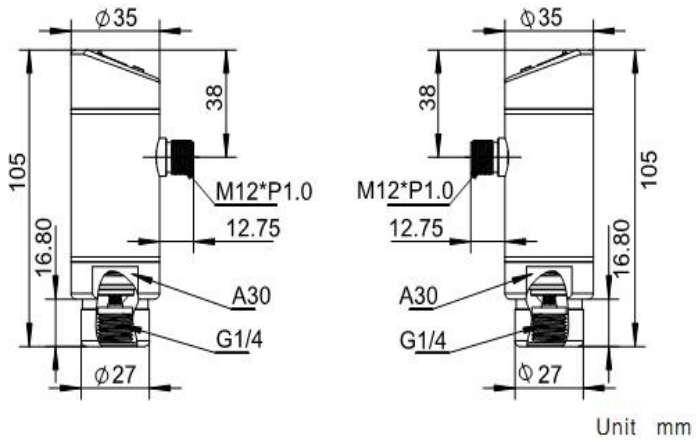
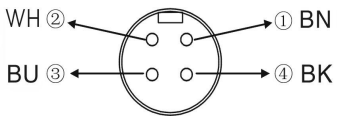
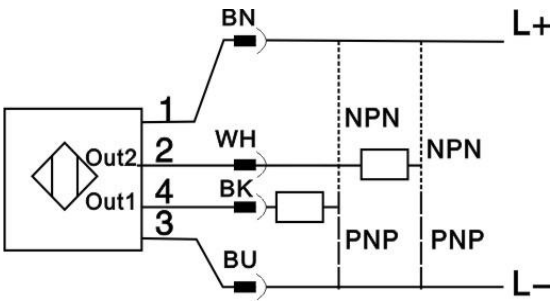
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color 	

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PA1170 Electronic Pressure Sensor M12 socket Connection: Internal thread G1/4 Programmable Switching + Analogue output 3 digit display Sensing range 0…600 bar 0…8700 Psi 0…612 kgf/cm2	 CE RoHS
Applications	Pressure: corresponding pressure
	Liquid and gas
Electric design	DC PNP / NPN
Output	NO /NC programmable
Supply voltage[V]	18…36DC
Short-circuit protection	Pulsed
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog	Yes
Voltage drop[V]	<2
Current consumption[mA]	<60
Overloading Pressure [bar]	880
Burst pressure [bar]	880
Analogue output OUT2	NPN/PNP
Overload of analogue output[Ohm]	300
Switching output OUT1	NPN/PNP
Overload of switching output [mA]	300
Setting range	
Switching point (SP) Reset point (rP) In steps of	4…600bar 2…598 bar 2bar
Programming options	Hysteresis range / Window function; NO / NC; Calibration; Unit display; Output 2 setting: NPN / PNP output; Output 1 setting: NPN / PNP output
Deviations (% of final value measured)	
Accuracy of switching point Characteristic deviation Hysteresis Stability of long-time use	< ±0.5 < ±0.5 < ±0.25 < ±0.5
Ambient temperature [℃/℉]	-25…80/-13...176
Medium temperature [℃/℉]	-25…80/-13...176
Storage temperature[℃/℉]	-40…100/-40...212
Protection/Enclosure Rating	IP68
Insulation resistance[MΩ]	> 100(500 V DC)

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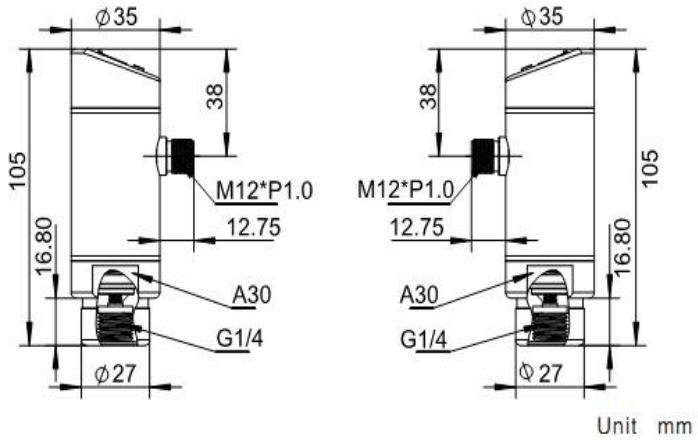
Dimension	
ESD[KV]	III
EFT[KV]	III
Walkie talkie experiment[M]	1
Shock resistance[g]	50
Vibration resistance[g]	20
Housing material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Medium contacting material	Ceramic/S316L/FGFKM
Function Display	
Switching status LED System pressure, function LED Connection	2 red LED 3 digit segment M12 socket
Wiring	
Core color