

Series EMS



AVENTICS™ Series EMS

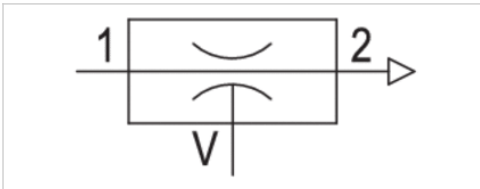


Multistage ejector, Series EMS

- with silencer



Activation	pneumatically
Working pressure min./max.	2 ... 6 bar
Working pressure p.opt.	See table below
Ambient temperature min./max.	0 ... 60 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 1 mg/m ³
Weight	See table below



Technical data

Part No.	Type	Working pressure p.opt.	Max. vacuum level at p.opt.
R412026097	EMS-PT-25-HF	4.5 bar	60 %
R412026098	EMS-PT-25-HV	4.5 bar	90 %
R412026099	EMS-PT-50-HF	4.5 bar	60 %
R412026100	EMS-PT-50-HV	4.5 bar	90 %
R412026101	EMS-PT-100-HF	5 bar	60 %
R412026102	EMS-PT-100-HV	5 bar	90 %

Part No.	Max. suction capacity	Air consumption at p.opt.	Sound pressure level intake effect
R412026097	252 l/min	88 l/min	56 dB
R412026098	252 l/min	117 l/min	64 dB
R412026099	432 l/min	177 l/min	57 dB
R412026100	445 l/min	231 l/min	64 dB
R412026101	856 l/min	367 l/min	60 dB
R412026102	822 l/min	476 l/min	67 dB

Part No.	Sound pressure level intake effect	Weight	Fig.
R412026097	67 dB	0.8 kg	Fig. 1
R412026098	68 dB	0.8 kg	Fig. 1
R412026099	70 dB	0.8 kg	Fig. 1
R412026100	73 dB	0.8 kg	Fig. 1
R412026101	74 dB	1.1 kg	Fig. 2

Part No.	Sound pressure level intake effect	Weight	Fig.
R412026102	77 dB	1.1 kg	Fig. 2

p.opt. = optimum working pressure

axial silencer

Technical information

Note: All data refers to an ambient pressure of 1.013 bar and an ambient temperature of 20 °C .

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

Technical information

Material	
Housing	Polyamide
Seal	Acrylonitrile butadiene rubber
Nozzle	Aluminum
Silencer	Polyurethane

Dimensions

Fig. 1

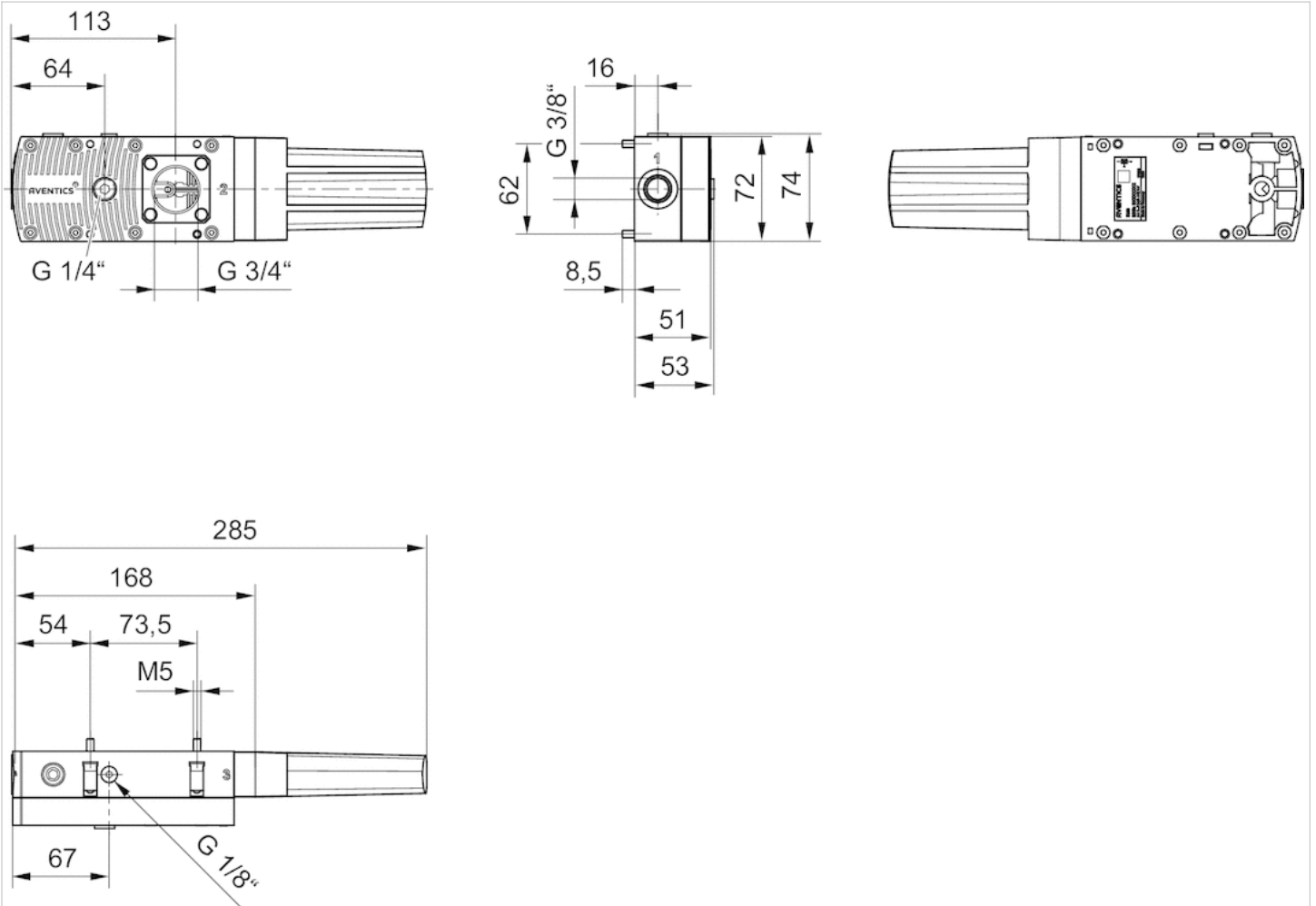
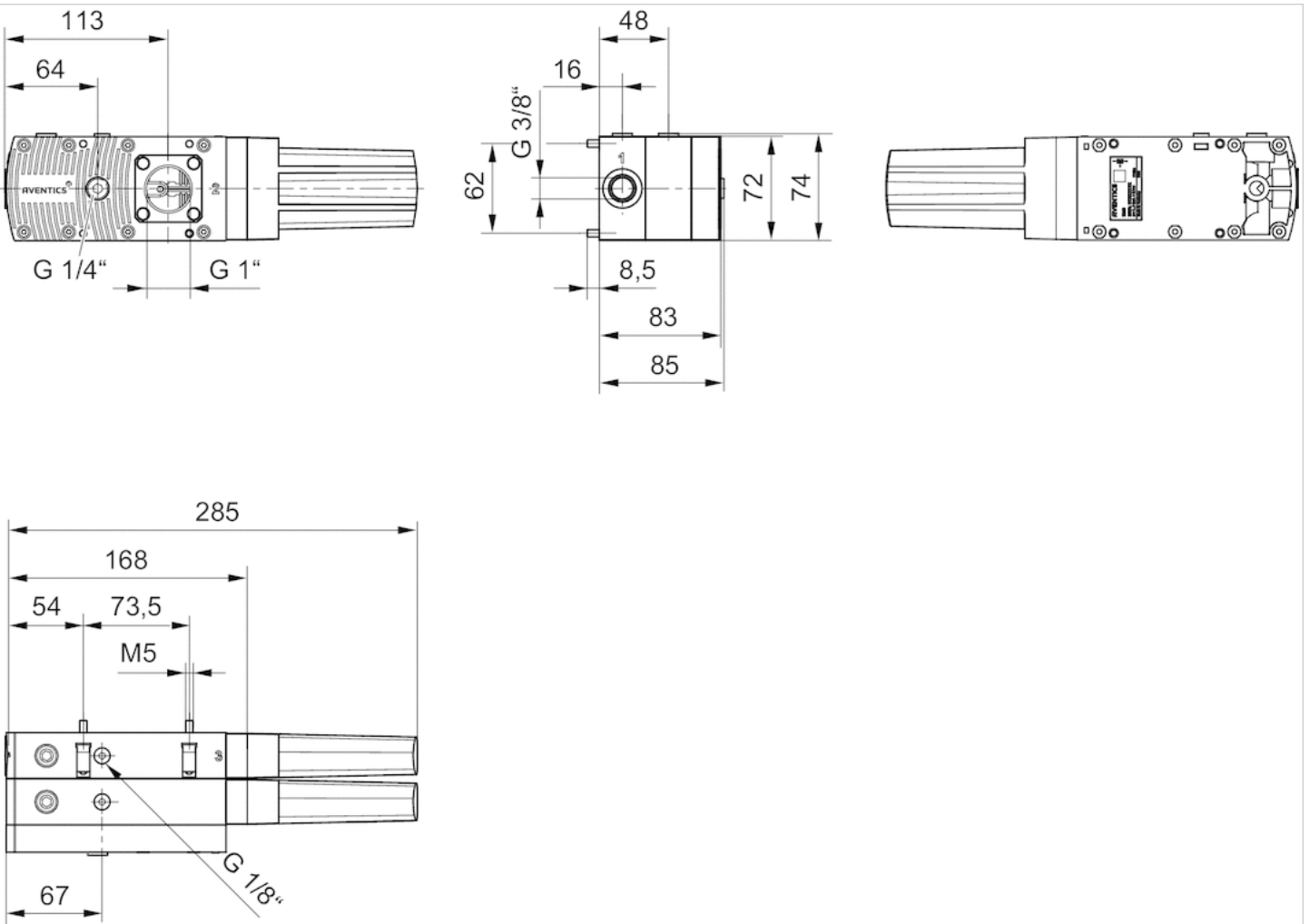
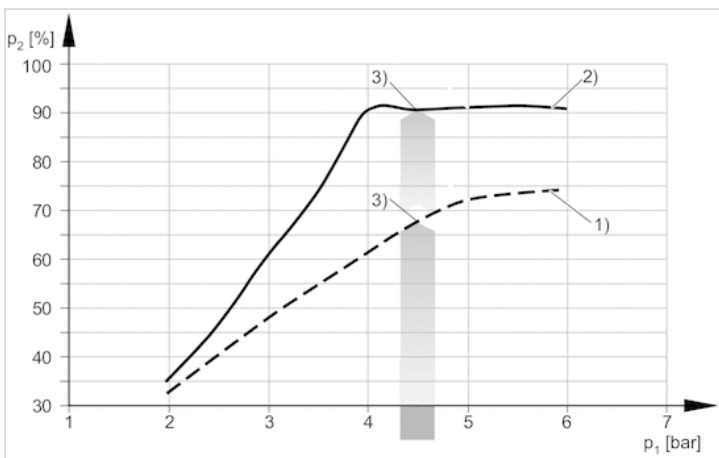


Fig. 2



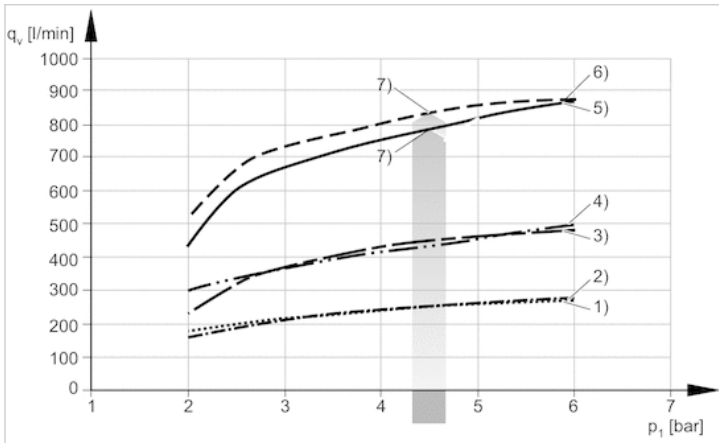
Diagrams

Vacuum p_2 depending on working pressure p_1



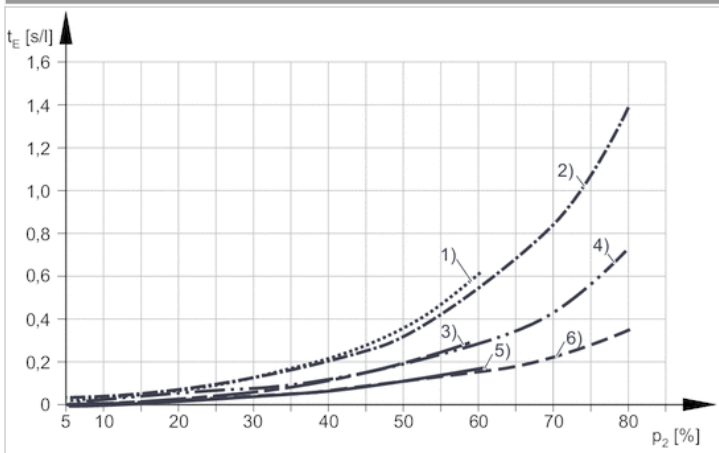
- 1) EMS-PT-25/50-HF
- 2) EMS-PT-25/50-HV
- 3) optimum working pressure

Suction capacity q_s depending on working pressure p_1

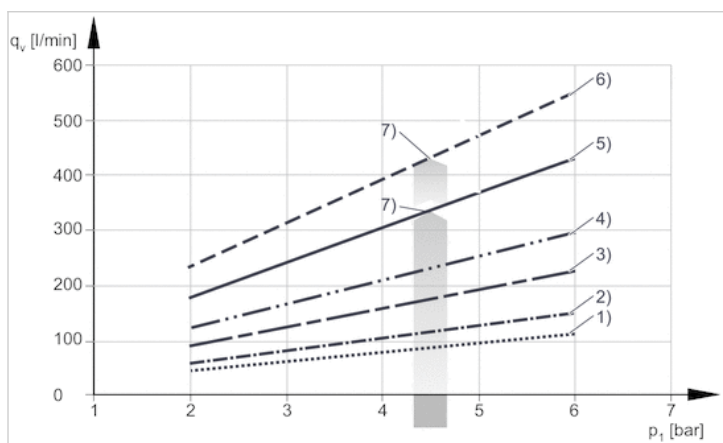


- 1) EMS-PT-25-HV
- 2) EMS-PT-25-HF
- 3) EMS-PT-50-HF
- 4) EMS-PT-50-HV
- 5) EMS-PT-100-HV
- 6) EMS-PT-100-HF
- 7) optimum working pressure

Evacuation time t_E depending on vacuum p_2 for 1 l volume (with optimal operating pressure p_{1opt})

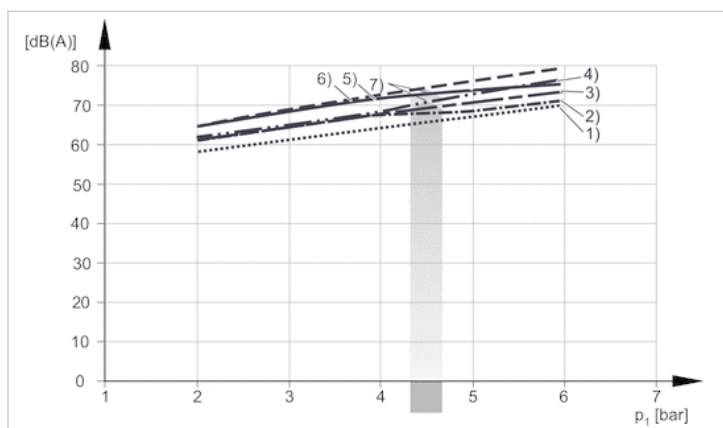


- 1) EMS-PT-25-HF
- 2) EMS-PT-25-HV
- 3) EMS-PT-50-HF
- 4) EMS-PT-50-HV
- 5) EMS-PT-100-HF
- 6) EMS-PT-100-HV

Air consumption q_v depending on working pressure p_1 

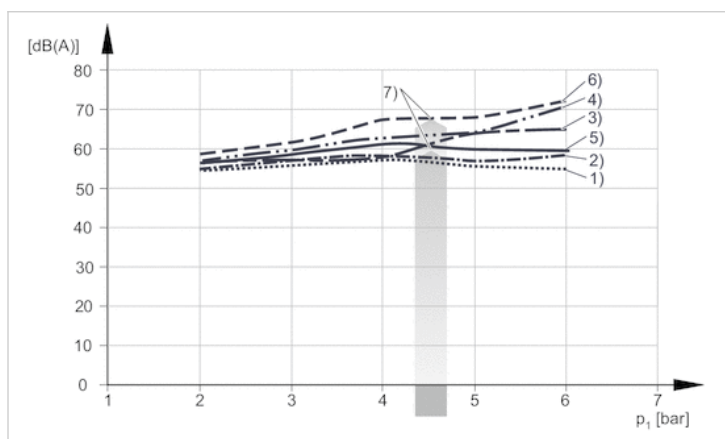
- 1) EMS-PT-25-HF
- 2) EMS-PT-25-HV
- 3) EMS-PT-50-HF
- 4) EMS-PT-50-HV
- 5) EMS-PT-100-HF
- 6) EMS-PT-100-HV
- 7) optimum working pressure

Noise level at free suctioning



- 1) EMS-PT-25-HF
- 2) EMS-PT-25-HV
- 3) EMS-PT-50-HF
- 4) EMS-PT-50-HV
- 5) EMS-PT-100-HF
- 6) EMS-PT-100-HV
- 7) optimum working pressure

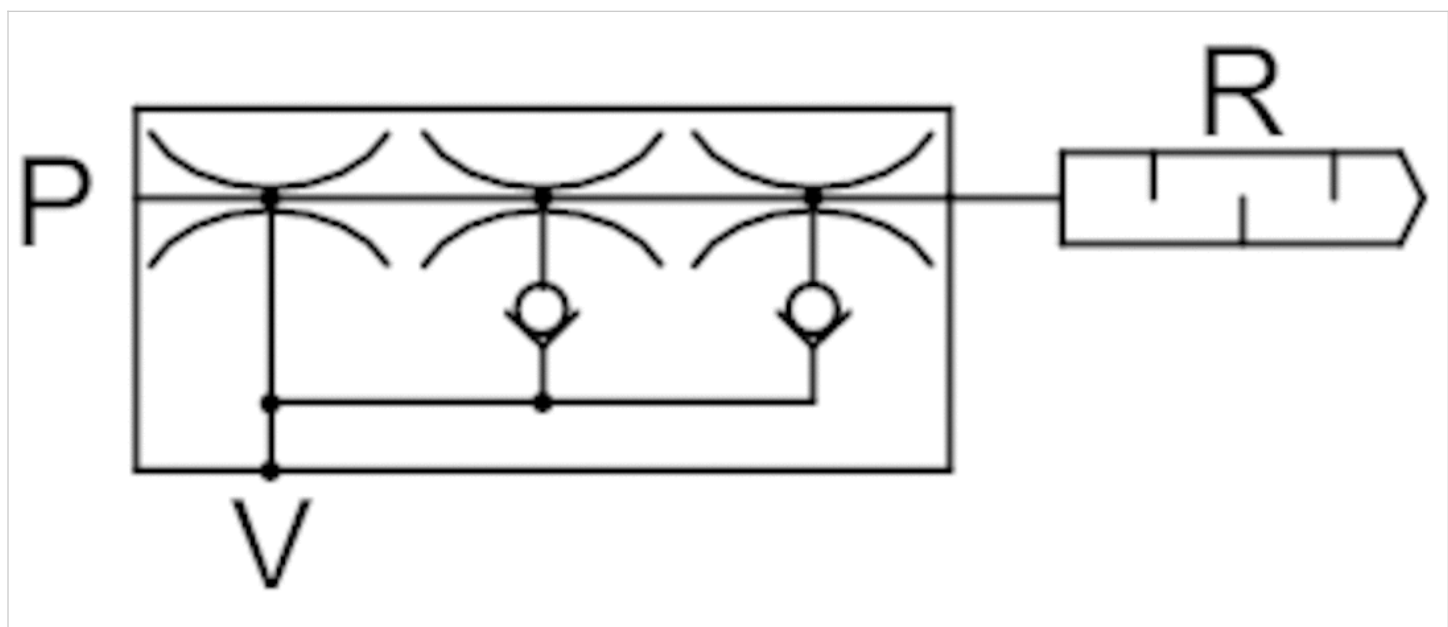
Noise level, suctioned



- 1) EMS-PT-25-HF
- 2) EMS-PT-25-HV
- 3) EMS-PT-50-HF
- 4) EMS-PT-50-HV
- 5) EMS-PT-100-HF
- 6) EMS-PT-100-HV
- 7) optimum working pressure

Circuit diagram

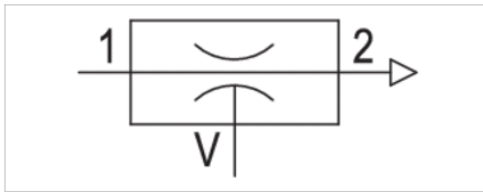
Circuit diagram, EMS-PT



Vacuum nozzle



Activation	pneumatically
Working pressure min./max.	2 ... 6 bar
Working pressure p.opt.	4 bar
Ambient temperature min./max.	0 ... 60 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 1 mg/m ³
Max. vacuum level at p.opt	82 %
Weight	0.035 kg



Technical data

Part No.	Type	Nozzle Ø	Max. suction capacity	Air consumption at p.opt.
R412026137	EMS-HF	1.3 mm	297.6 l/min	74 l/min
R412026138	EMS-HV	1.6 mm	308.8 l/min	103 l/min

p.opt. = optimum working pressure

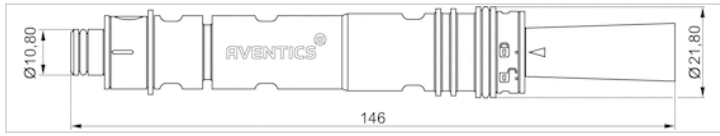
Technical information

Note: All data refers to an ambient pressure of 1.013 bar and an ambient temperature of 20 °C .
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.

Technical information

Material	
Housing	Polyamide
Seal	Acrylonitrile butadiene rubber
Nozzle	Brass

Dimensions



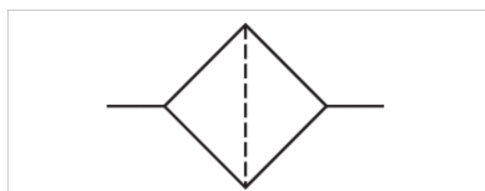
Vacuum filter, cup version, Series VFC

- G 1/8 G 1/4 G 3/8 G 1/2 G 3/4

- filter porosity 80 µm



Version	Vacuum filter
Mounting orientation	Any
Ambient temperature min./max.	5 ... 52 °C
Medium	Compressed air
Filter element	exchangeable
filter porosity	80 µm
Weight	See table below



Technical data

Part No.	Port	Flow Qn	Weight
0821305181	G 1/8	45 l/min	0.049 kg
0821305182	G 1/4	110 l/min	0.047 kg
0821305183	G 3/8	245 l/min	0.079 kg
0821305184	G 1/2	300 l/min	0.076 kg
0821305185	G 3/4	600 l/min	0.164 kg

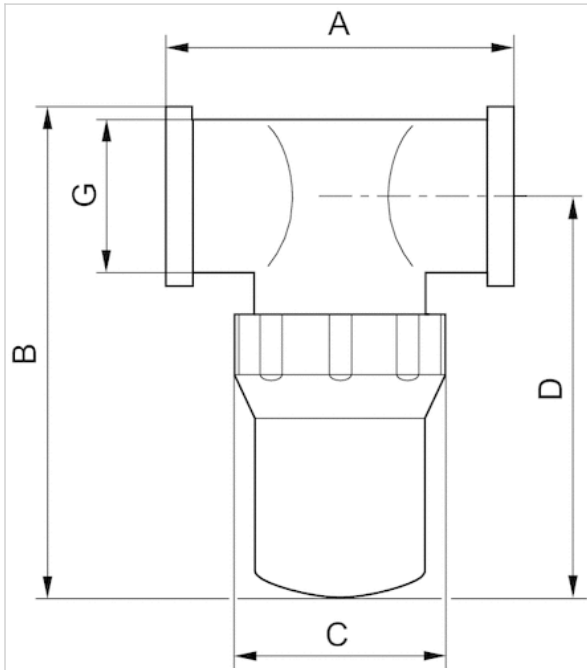
Nominal flow at $\Delta p = 40$ mbar

Technical information

Material	
Housing	Polypropylene
Seals	Acrylonitrile butadiene rubber
Reservoir	Polyamide
Filter insert	Polyethylene

Dimensions

Dimensions

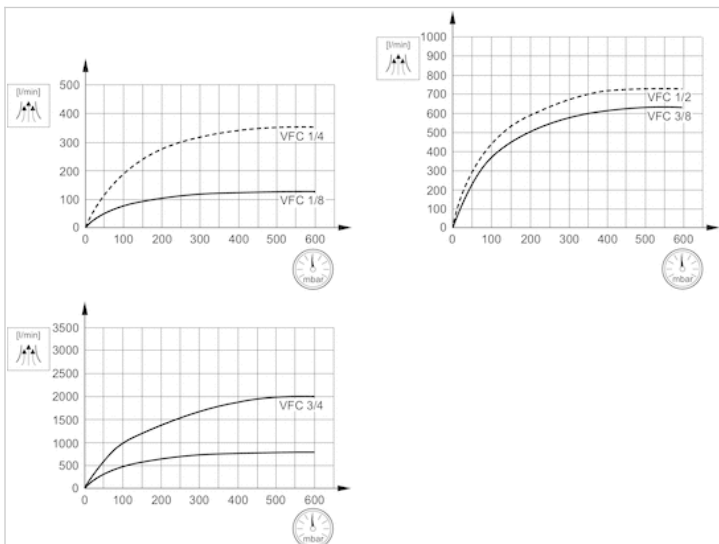


Dimensions

Part No.	G	A	B	C	D
0821305181	G 1/8	76	60	48	50
0821305182	G 1/4	76	60	48	50
0821305183	G 3/8	76	102	48	88
0821305184	G 1/2	76	102	48	88
0821305185	G 3/4	90.5	136.5	74.2	118

Diagrams

characteristics (flow volume)



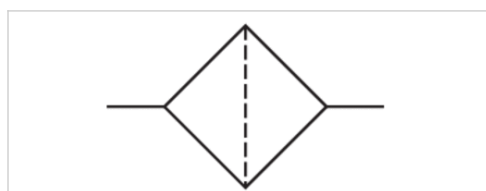
Vacuum filter Inline, Series VFI

- G 1/8 G 1/4 G 3/8 G 1/2



Version
Medium
Weight

Vacuum filter
Compressed air
See table below



Technical data

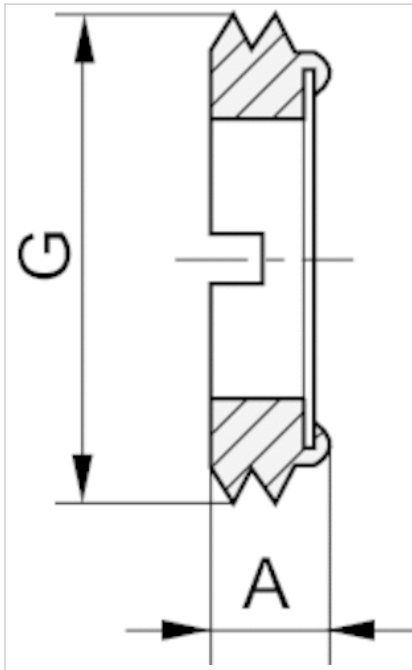
Part No.	Port	Weight
2737000180	G 1/8	0.002 kg
2737000140	G 1/4	0.005 kg
2737000380	G 3/8	0.009 kg
2737000120	G 1/2	0.009 kg

Technical information

Material	
Housing	Brass
Filter insert	tin bronze

Dimensions

Dimensions



Dimensions

Part No.	Port G	A
2737000180	G 1/8	3.5
2737000140	G 1/4	5
2737000380	G 3/8	5
2737000120	G 1/2	5

plugs

- for series EMS



Weight

0.014 kg

Technical data

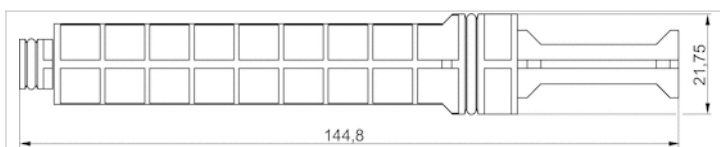
Part No.	Scope of delivery
R412026139	1 piece

Screws included in scope of delivery: 2 x M5x20, DIN EN ISO 4762

Technical information

Material	
Housing	Steel

Dimensions



Mounting bracket

- for series EMS



Weight

0.106 kg

Technical data

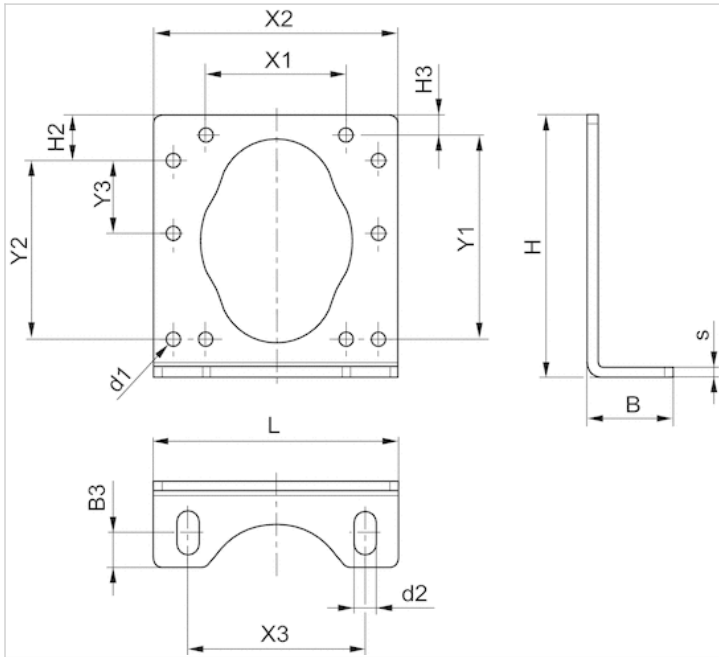
Part No.	Scope of delivery
R412026103	1 piece

Screws included in scope of delivery

Technical information

Material	
Housing	Steel

Dimensions



replacement filter, Series VFI

- for Vacuum filter Inline

- filter porosity 50 µm



Version

Ambient temperature min./max.

Medium

filter porosity

Weight

Vacuum filter

0 ... 50 °C

Compressed air

50 µm

See table below

Technical data

Part No.	Type	Weight
R412010114	VFI-6/4	0.004 kg
R412010115	VFI-8/6	0.005 kg

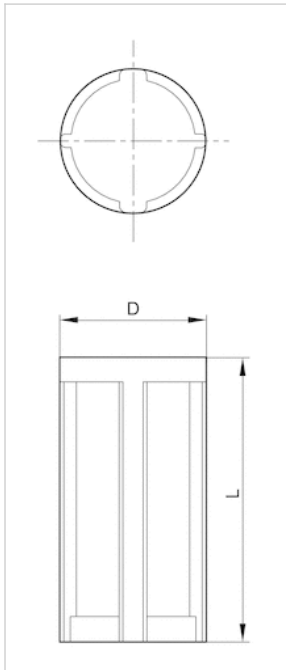
Technical information

Material

Filter insert	Polypropylene Polyamide
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Dimensions

Dimensions

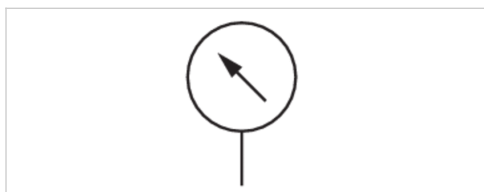


Dimensions

Part No.	Type	D	L
R412010114	VFI-6/4	10.4	20.5
R412010115	VFI-8/6	16.2	22.5

Pressure gauge, Series PG1-SNL

- Back port
- Background color Black
- Scale color Green, White
- Viewing window Polystyrene
- Units bar
- Units psi
- suitable for ATEX



Version	Bourdon tube pressure gauge
Seal	Axial
Standardization	EN 837-1
Class	1,6
Ambient temperature min./max.	-40 ... 60 °C
Medium	Compressed air
Main scale unit (outside)	bar
Main scale color (outside)	Green
Secondary scale unit (inside)	psi
Secondary scale color (inside)	White
Background color	Black
Pointer color	White
Weight	0.06 kg

Technical data

Part No.	Compressed air connection	Nominal diameter	Range of application	Display range	Operating pressure	Scale value
1827231053	G 1/8	40 mm	-0.8 ... 0	-1 ... 0	-1 ... 0 bar	0.1

Order seal 1829202004 separately

Technical information

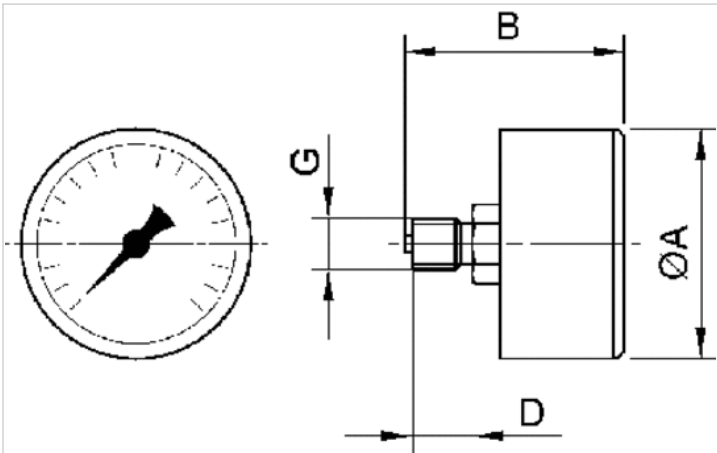
Order axial seal separately

Technical information

Material	
Housing	Acrylonitrile butadiene styrene
Thread	Brass
Viewing window	Polystyrene

Dimensions

Dimensions



Dimensions in mm

G	Nominal diameter	Ø A	B	D
G 1/8	40 mm	39	44	10








Pressure sensor, Series PE5

- Operating pressure -1 ... 0 bar
- electronic
- Output signal analog 0 - 10 V DC, 4 - 20 mA
- Output signal digital 2 x PNP, NPN, Push-pull PNP, NPN, Push-pull PNP, NPN, push-pull, 1x IO-Link
- Electr. connection Plug M12x1 4-pin
- Compressed air connection Internal thread G 1/4 push-in fitting Ø 4



Type	electronic
Certificates	CE declaration of conformity, cULus, RoHS, Conforms with REACH, Free of substances that impair surface wetting in the coating process
Ambient temperature min./max.	0 ... 60 °C
Medium temperature min./max.	0 ... 60 °C
Medium	Compressed air (max. 40 µm)
Max. oil content of compressed air	40 mg/m ³
Measurement	Relative pressure
Display	LCD display, 4 digits, Color setting: green or red
Units displayed	bar psi kPa MPa inHg
Switching logic	NO/NC (adjustable)
Protection against overpressure	5 bar
Shock resistance max.	30 g
Vibration resistance	5 g (10 - 150 Hz)
Precision (% of full scale value)	±1.5% in temperature range of 10 - 30°C ± 2 % including temperature drift
Repeatability (% of full scale value)	± 0,2 %
Switching time	5 ms
Switching point	adjustable 0 ... 100%
Resetting point	adjustable 0 ... 100%
Hysteresis	adjustable
Delayed hysteresis	adjustable
Window function	adjustable
DC operating voltage min./max.	17 ... 30 V DC
Analog output	0 - 10 V DC, 4 - 20 mA
Quiescent current consumption	40 mA
Analog output linearity	± 0.5% of the final value
Maximum load (analog current output)	600 Ω
Short circuit resistance	Max. 600 ohms (current output) Min. 3K ohms (voltage output)
Mounting types	Directly on hat rail and wall mounting For panel installation using mounting kit via double nipple
Protection class	IP65 IP67 with connections assembled
Electr. connection	Plug M12x1 4-pin
Weight	0.04 kg

Technical data

Part No.		Operating pressure range	Output signal
		min./max.	Analog
R412010761		-1 ... 0 bar	-
R412010760		-1 ... 0 bar	-
R412010769		-1 ... 0 bar	0 - 10 V DC-4 ... 20 mA
R412010768		-1 ... 0 bar	0 - 10 V DC-4 ... 20 mA
R412010775		-1 ... 0 bar	-
R412010774		-1 ... 0 bar	-

Part No.	Output signal	Compressed air connection	Fig.	
	digital			
R412010761	2 x PNP, NPN, Push-pull	Internal thread, G 1/4	Fig. 1	-
R412010760	2 x PNP, NPN, Push-pull	push-in fitting, Ø 4	Fig. 2	-
R412010769	PNP, NPN, Push-pull	Internal thread, G 1/4	Fig. 1	-
R412010768	PNP, NPN, Push-pull	push-in fitting, Ø 4	Fig. 2	-
R412010775	PNP, NPN, push-pull, 1x IO-Link	Internal thread, G 1/4	Fig. 1	1)
R412010774	PNP, NPN, push-pull, 1x IO-Link	push-in fitting, Ø 4	Fig. 2	1)

1) The IO-Link device description (IODD) for the PE5 pressure sensor is available for download in the Media Centre.

Technical information

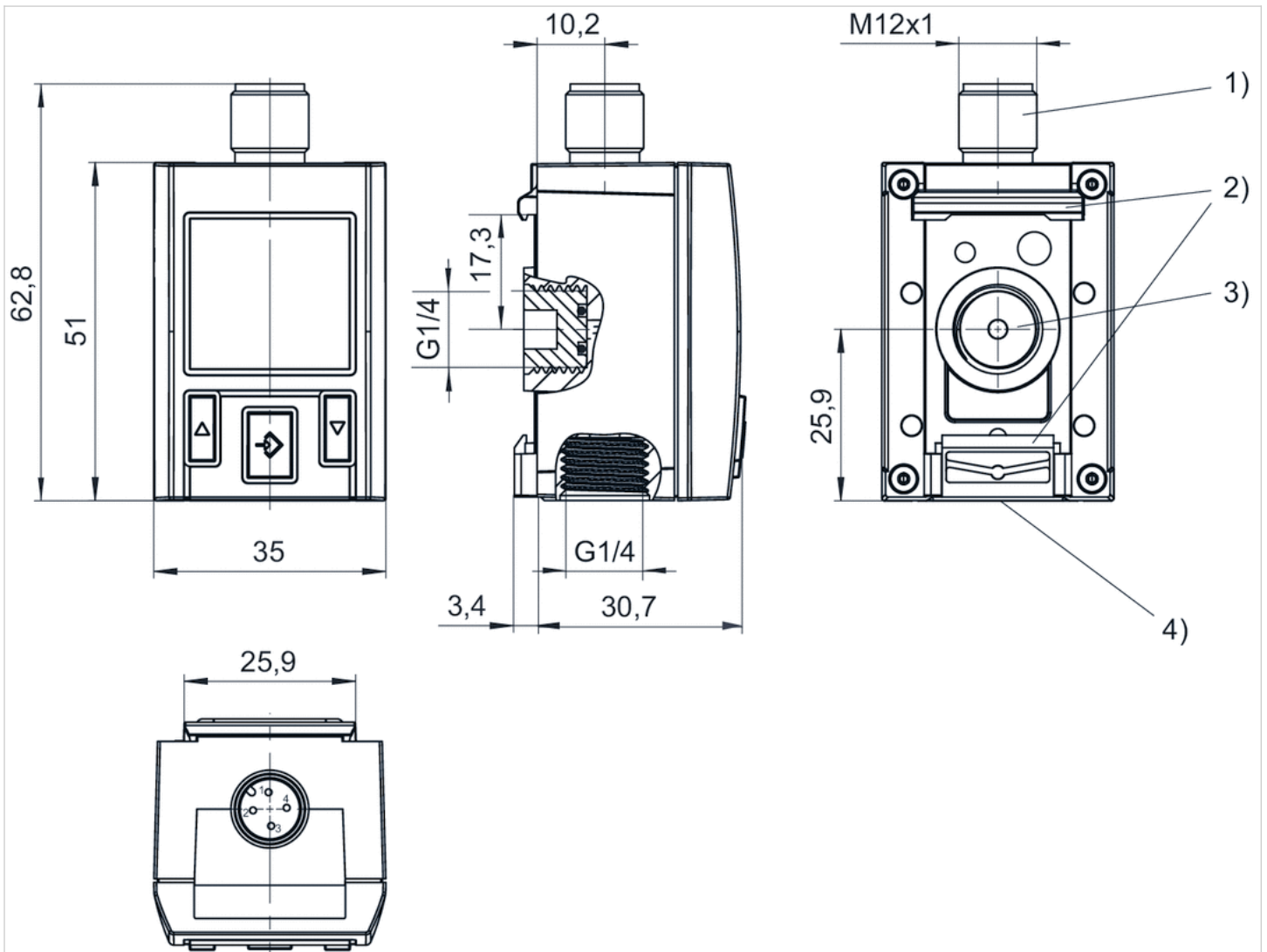
Alternative pressure connection (G1/4) on the rear side (closed with plug)
Display color selectable, red or green

Technical information

Material	
Housing	Polycarbonate
Seals	Acrylonitrile butadiene rubber
Blanking plug	Polyoxymethylene
Electr. connection	Aluminum, black anodized

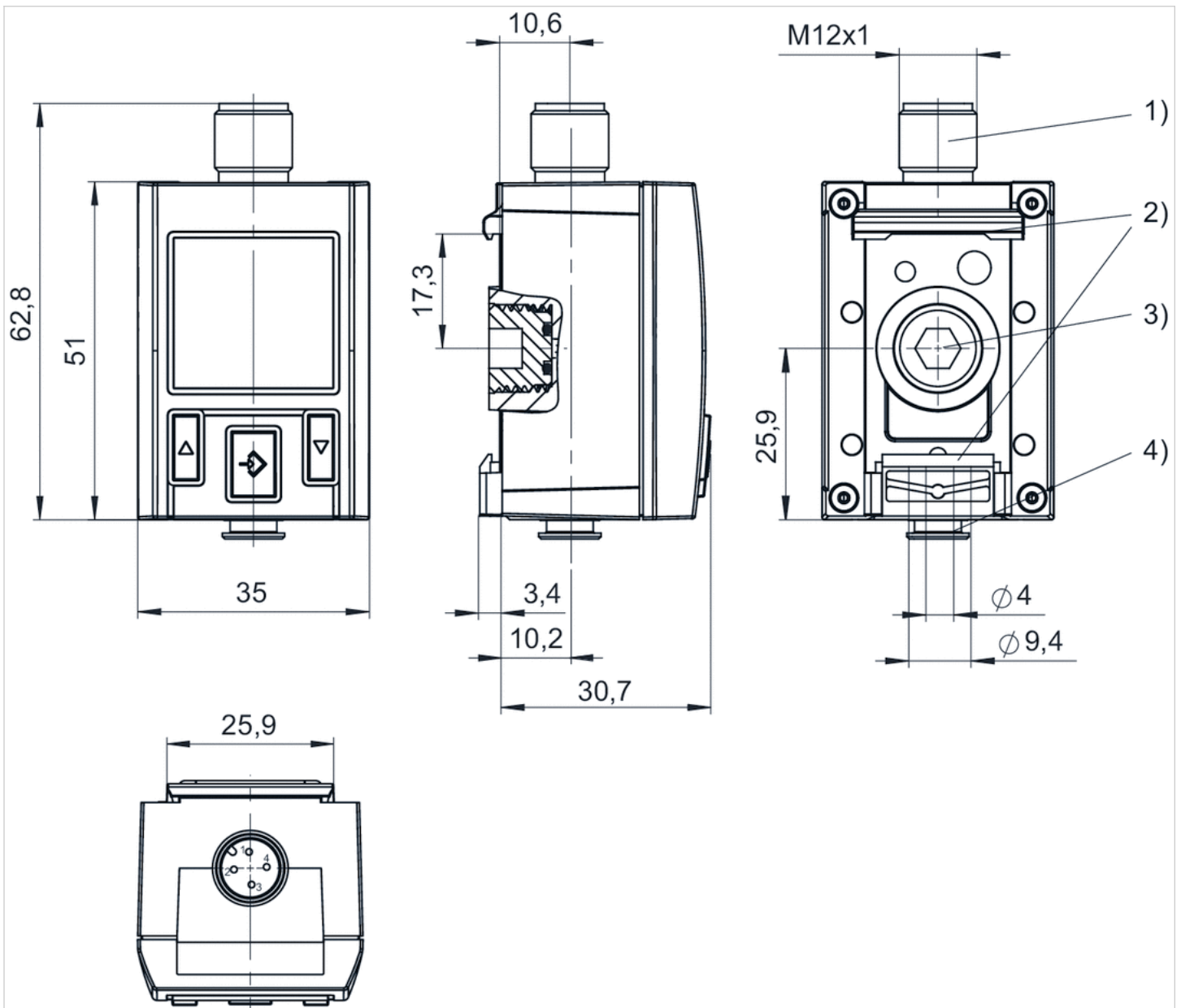
Dimensions

Fig. 1



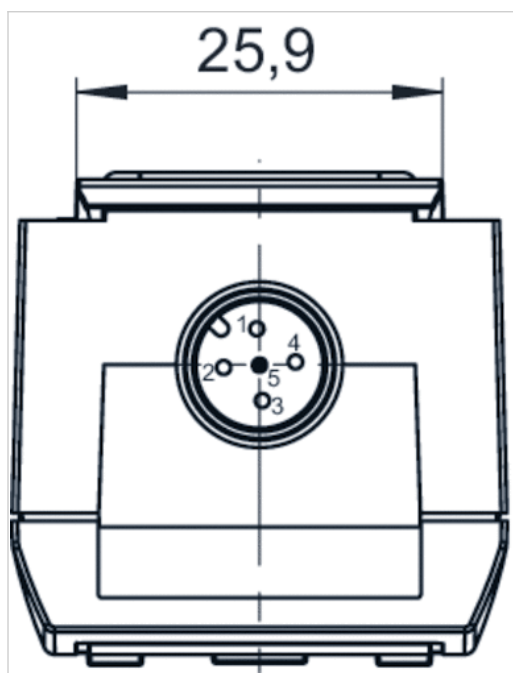
- 1) M12x1 electrical connection
- 2) Mounting for hat rail and wall mounting
- 3) Alternative pressure connection (G1/4) closed with plug
- 4) Pressure connection G1/4

Fig. 2

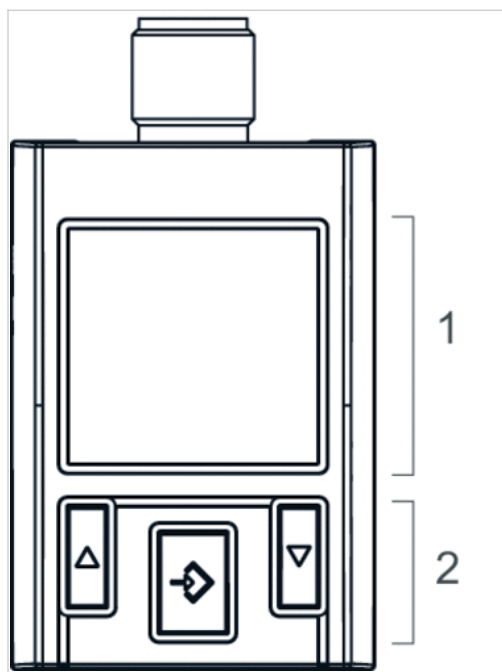


- 1) M12x1 electrical connection
- 2) Mounting for hat rail and wall mounting
- 3) Alternative pressure connection (G1/4) closed with plug
- 4) Pressure connection, tubing Ø 4 mm

Fig. 3, Electr. connection for leak test



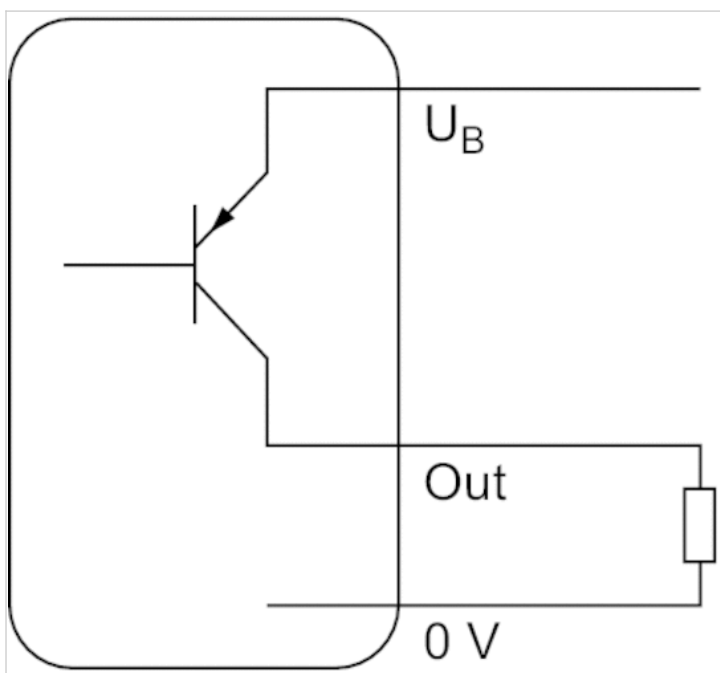
Display and operation area



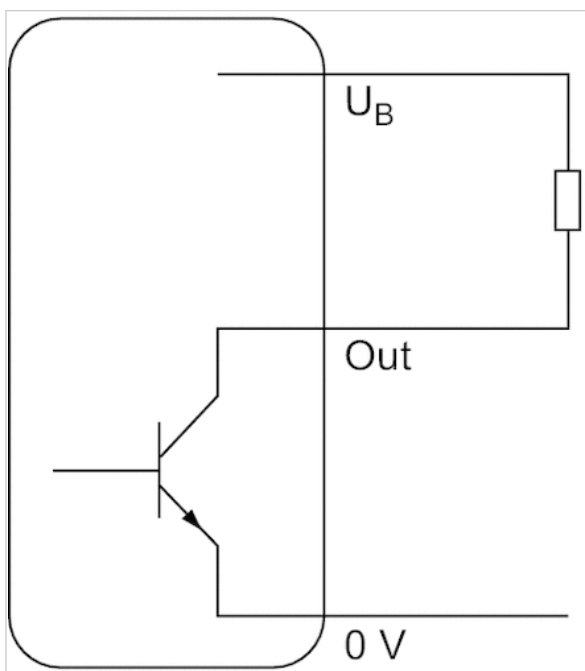
- 1) LCD display
- 2) Control panel with 3 buttons

Diagrams

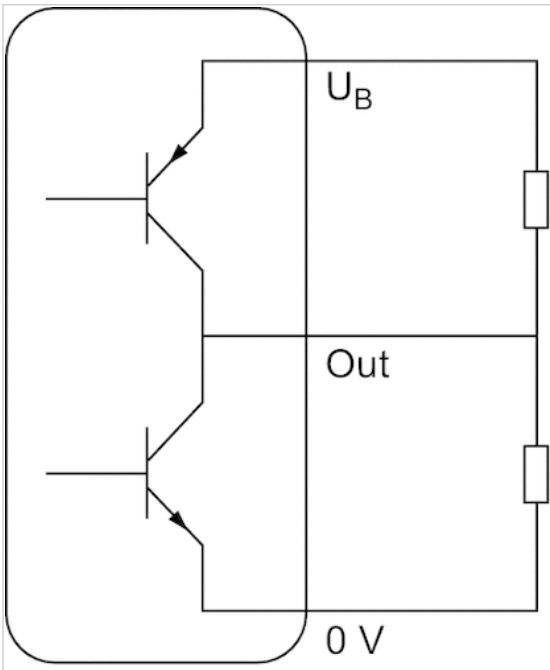
Operating mode, PNP



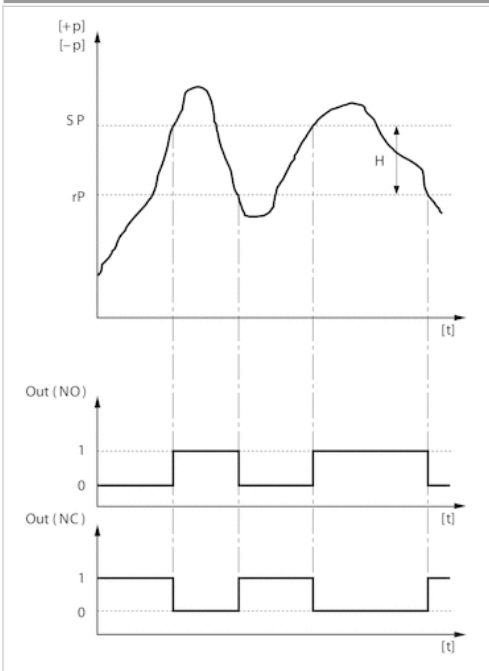
Operating mode, NPN



Operating mode, Push-pull

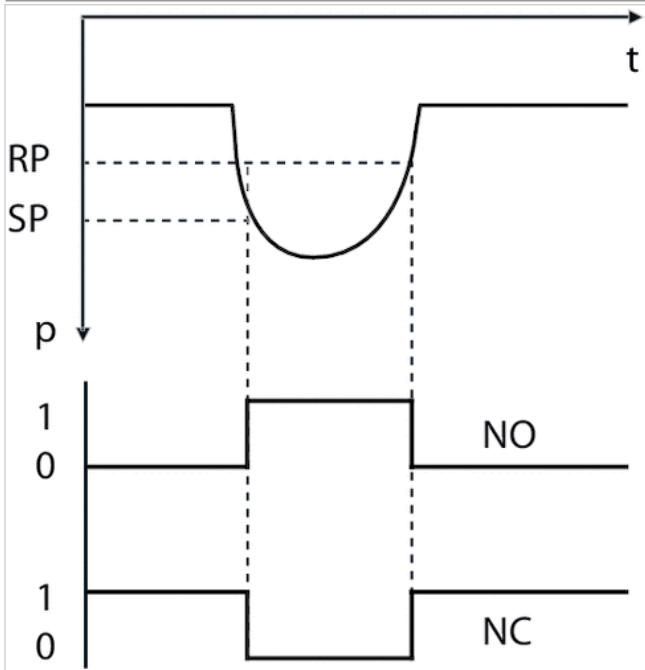


Hysteresis function: switching and resetting behavior dependent on pressure p and time t, in case of overpressure

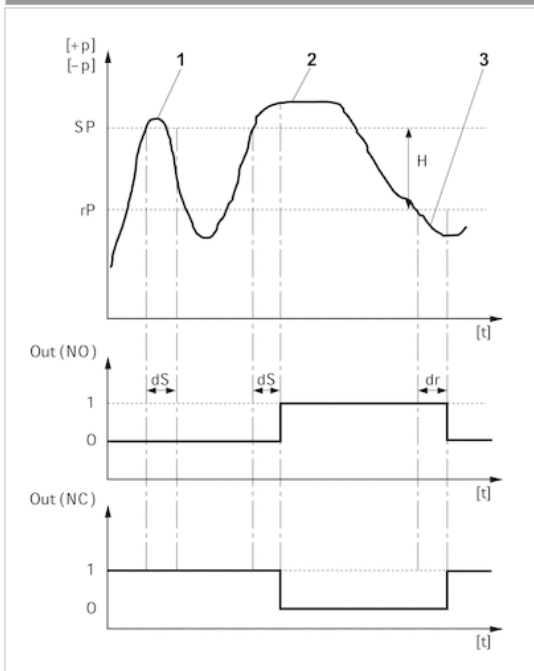


- H: Hysteresis
- SP = switching point
- RP = resetting point
- Out (NC): switch output, break contact
- Out (NO): switch output, make contact

Hysteresis function: switching and resetting behavior dependent on pressure p and time t , in case of underpressure

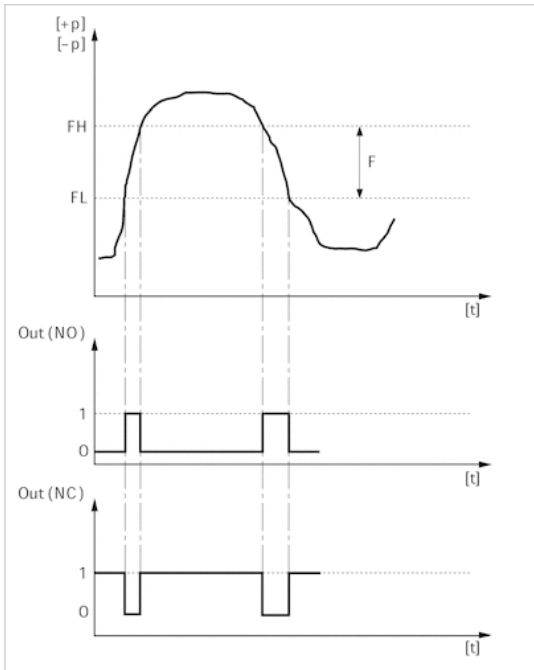


Delayed hysteresis function: switching and resetting behavior depending on pressure p and time t



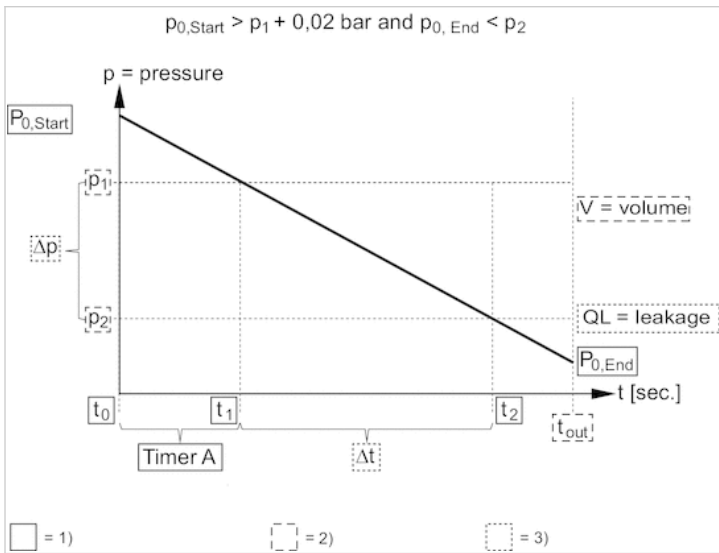
- H: Hysteresis
- SP = switching point
- RP = resetting point
- Out (NC): switch output, break contact
- Out (NO): switch output, make contact
- dS: switching delay
- dR = reset delay
- 1) period of pressure over the switching point dS : pressure sensor does not switch
- 2) Period of pressure over the switching point $> dS$: pressure sensor switches
- 3) Period of pressure under the resetting point $> dR$: pressure sensor switches

Window function: switching and resetting behavior depending on pressure p and time t



FH: pressure band, upper value
 FL: pressure band, lower value
 Out (NC): switch output, break contact
 Out (NO): switch output, make contact

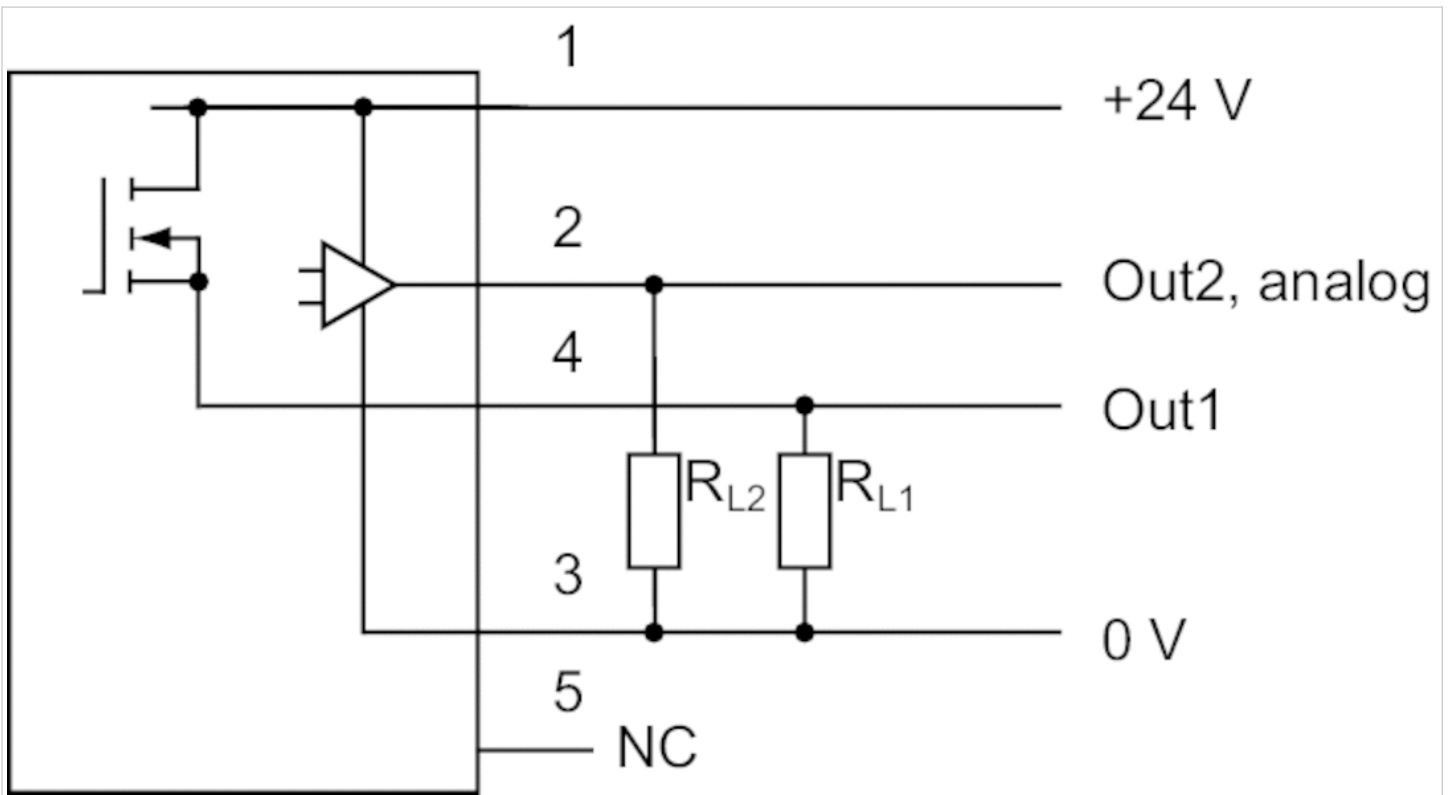
Leakage characteristic



- 1) Internally stored parameter
- 2) Adjustable parameter
- 3) Output value

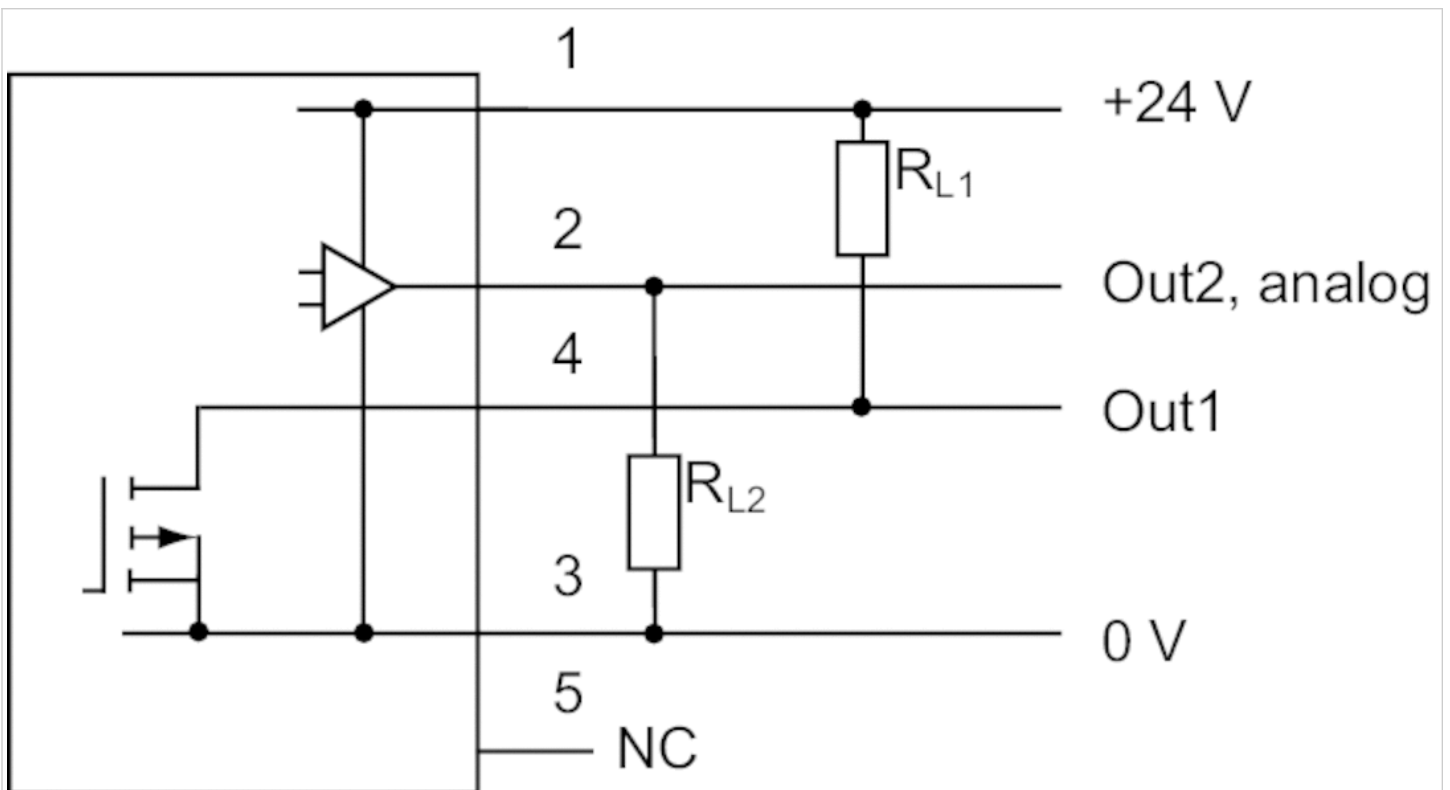
Circuit diagram

Block diagram, 1x PNP and 1x analog



RL = storable position

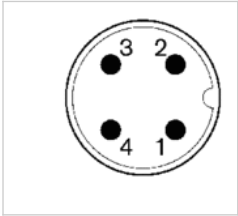
Block diagram, 1x NPN and 1x analog



RL = storable position

Pin assignments

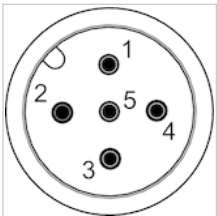
Pin assignments, M12x1, 4-pin



Pin	1
Allocation	operational voltage + UB
	2
	3
	switch output Out2, analog: A or V, digital: PNP, NPN, push-pull
	0 V
	4
	switch output Out1, digital: PNP, NPN, push-pull

Pin assignments

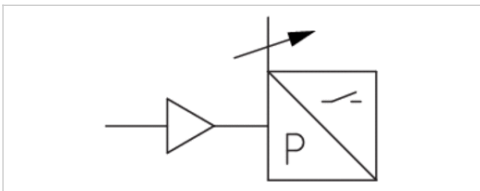
Pin assignments, M12x1, 5-pin



Pin	1	2	3
Allocation	Supply Voltage	Switch output PNP/NPN/push-pull, switchable	0 V
		4	
		Switch output PNP/NPN/push-pull/leakage mode, digital switch input PNP	
		5	
		Analog output (0 to 10 V DC, 4 to 20 mA)	

Pressure sensor, Series PE6

- Operating pressure -1 ... 0 bar
- electronic
- with sensor element based on piezo resistance
- Electr. connection Plug M8x1 4-pin
- Compressed air connection Flange with O-ring Ø 1,2x1



Type	electronic
Function	2 x PNP
Compressed air connection	Flange with O-ring Ø 1,2x1
Working pressure min./max.	-1 ... 0 bar
Ambient temperature min./max.	0 ... 60 °C
Medium temperature min./max.	0 ... 50 °C
Medium	Compressed air
Max. oil content of compressed air	1 mg/m ³
Measurement	Relative pressure
Display	LED
Switching logic	NO (make contact)
Operating pressure display	2 LED
Protection against overpressure	5 bar
Shock resistance max.	10 g
Vibration resistance	10 - 55 Hz, 0,1 mm
Repeatability (% of full scale value)	± 1 %
Switching time	2 ms
Switching point	adjustable 0 ... 100%
Resetting point	adjustable 0 ... 100%
Quiescent current consumption	20 mA
Short circuit resistance	clocking
Mounting types	via flange
Protection class	IP40
Electr. connection	Plug M8x1 4-pin
Weight	0.006 kg

Technical data

Part No.	Type	Operating pressure range	Output signal
		min./max.	digital
R412007880	PE6-P2-L HYST. FEST	-1 ... 0 bar	2 x PNP
R412007881	PE6-P2-L HYST EINST	-1 ... 0 bar	2 x PNP
R412007882	PE6-P2-S HYST FEST	-1 ... 0 bar	2 x PNP
R412007883	PE6-P2-S HYST EINST	-1 ... 0 bar	2 x PNP

Part No.	Precision (% of full scale value)	Hysteresis	Mounting orientation
R412007880	± 3 %	2% of the final value, fixed	L (horizontal)
R412007881	± 3 %	adjustable	L (horizontal)
R412007882	± 3 %	2% of the final value, fixed	S (vertical)
R412007883	± 3 %	adjustable	S (vertical)

Technical information

Notice: This product may only be operated with oil-free, dry compressed air.
Flange plate with screws and seals in scope of delivery

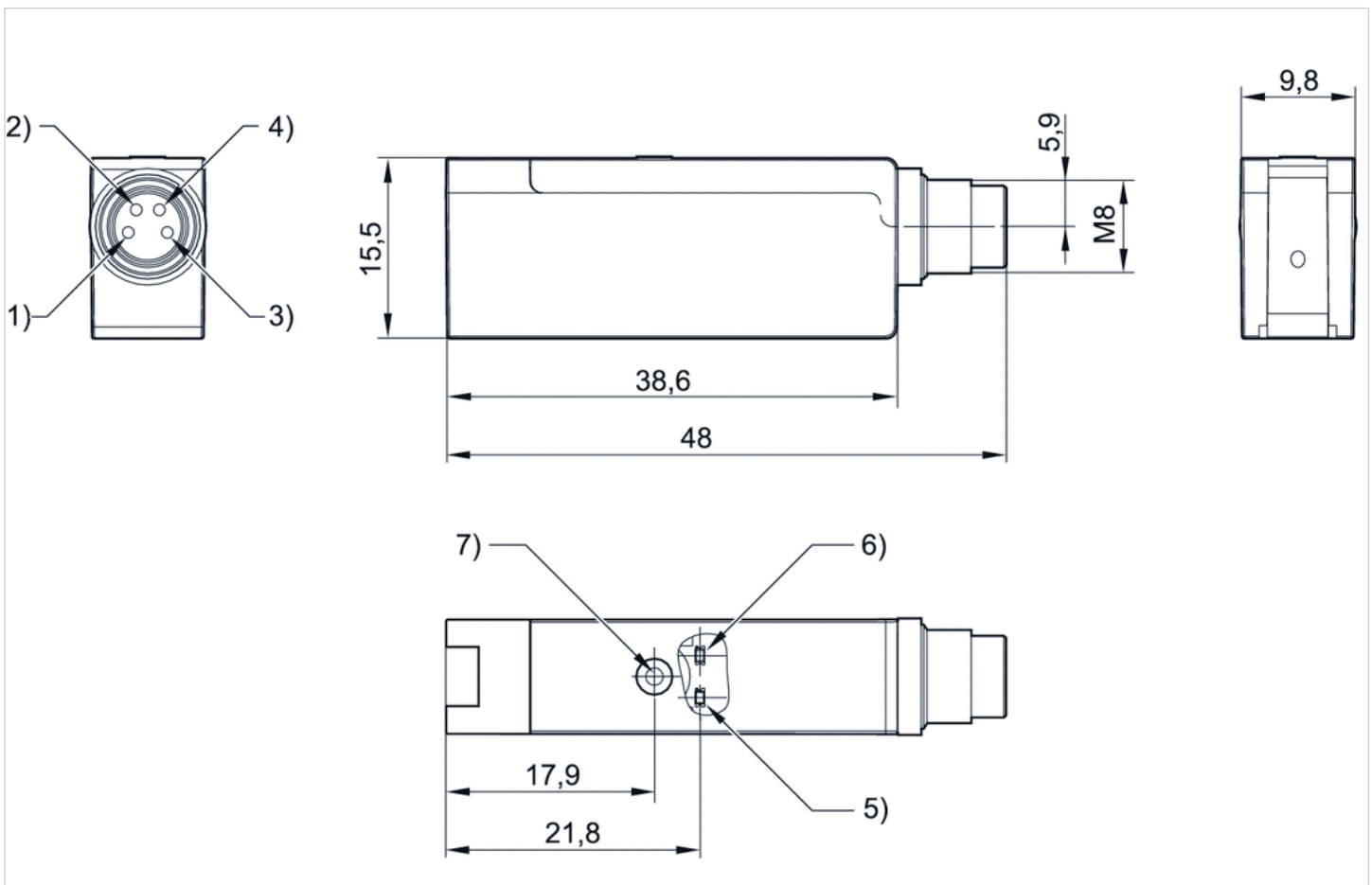
Technical information

Material

Housing	Polycarbonate
Seals	Acrylonitrile butadiene rubber
Electr. connection	Brass, nickel-plated

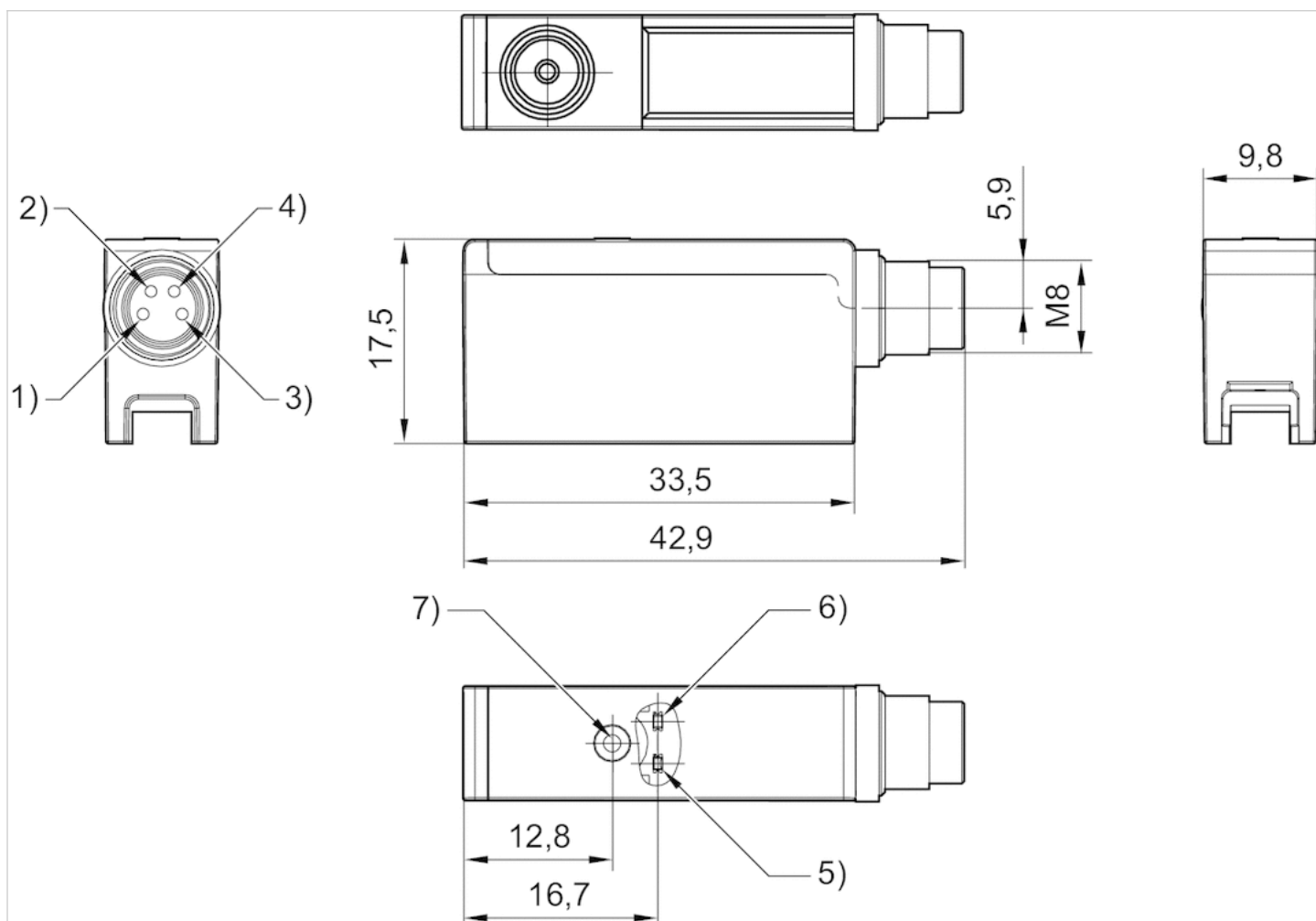
Dimensions

PE6...-S



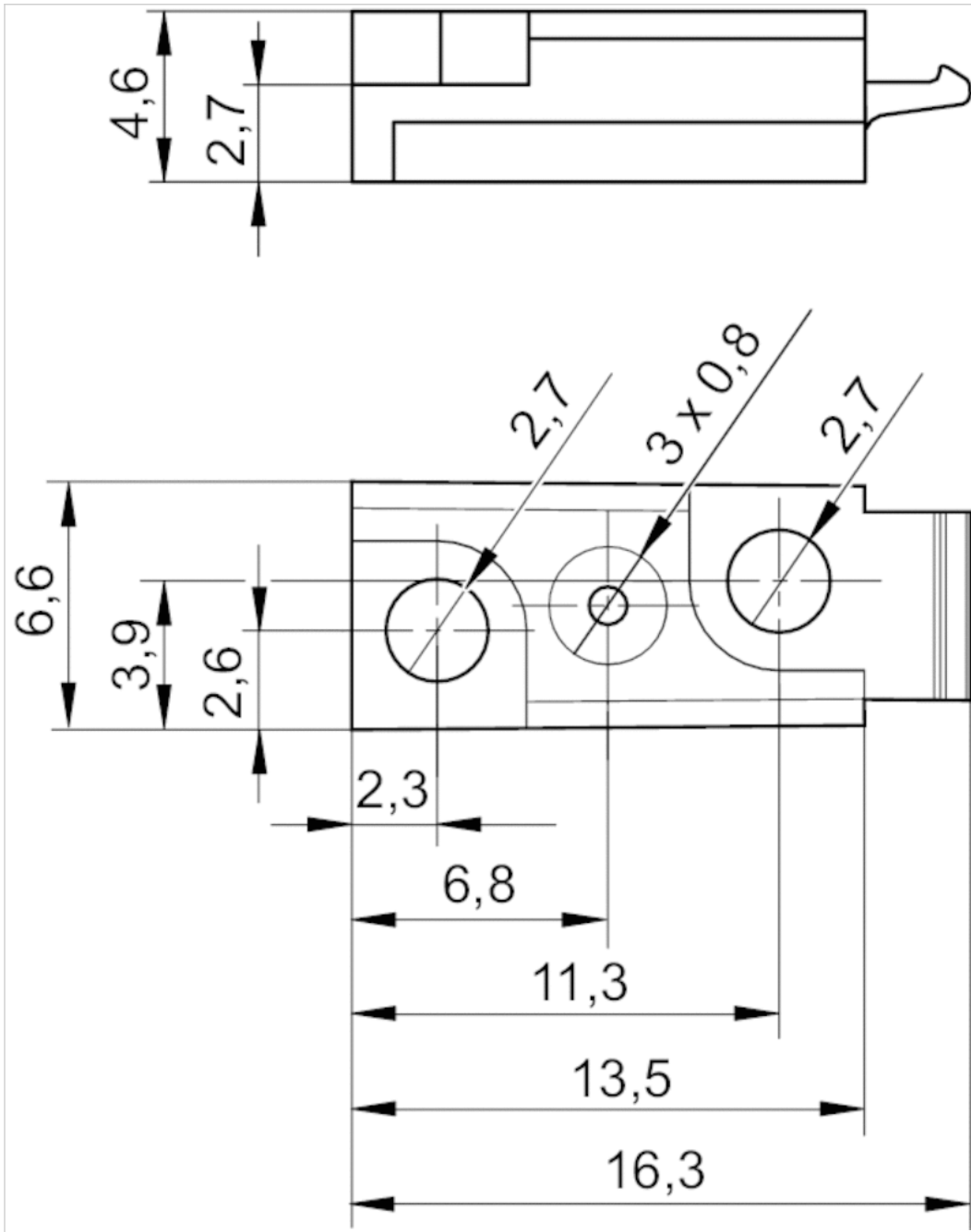
- 1) +UB
- 2) Switch output 2
- 3) GND
- 4) Switch output 1
- 5) LED for switch output 2
- 6) LED for switch output 1
- 7) setting knob

PE6...-L

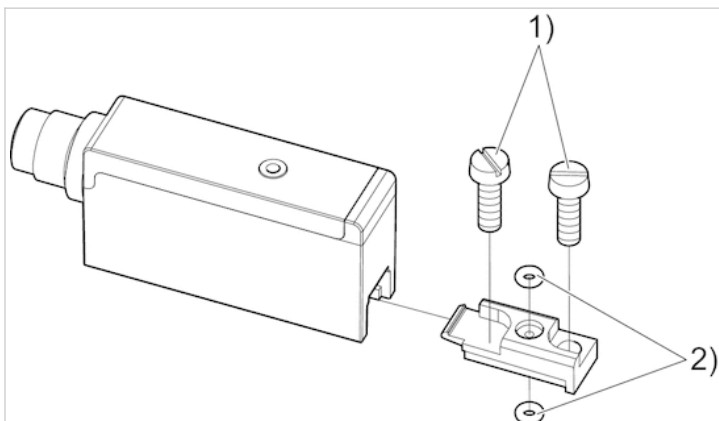


- 1) +UB
- 2) Switch output 2
- 3) GND
- 4) Switch output 1
- 5) LED for switch output 2
- 6) LED for switch output 1
- 7) setting knob

Flange plate, PE6



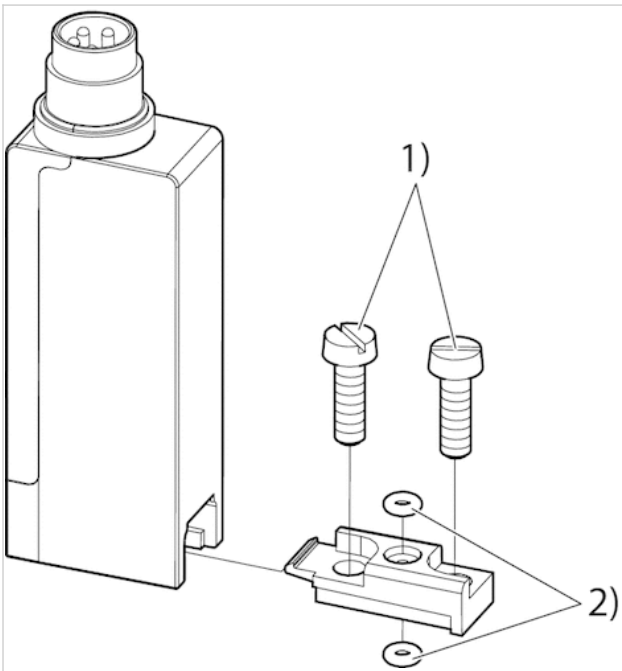
Pressure sensor, PE6...-L



1) Cylinder screw M2,5x8

2) O-ring Ø1,2x1 (included)

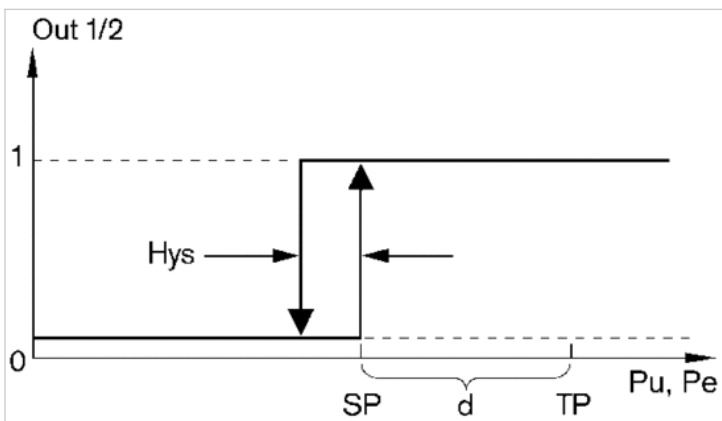
Pressure sensor, PE6...-S



- 1) Cylinder screw M2,5x8
- 2) O-ring Ø1,2x1 (included)

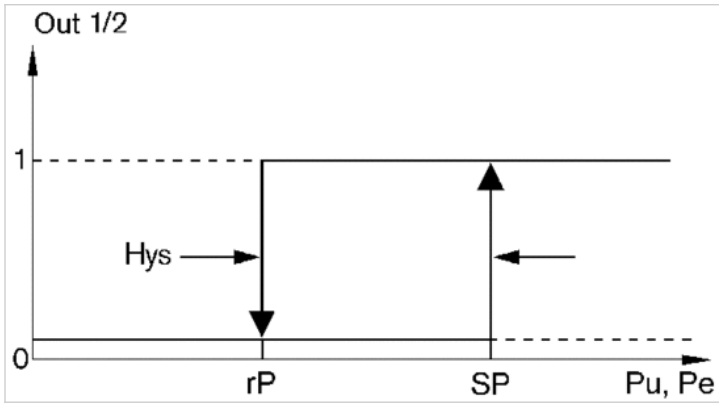
Diagrams

switching function (fixed hysteresis)



Vacuum sensor: $d=20\%$
 Pressure sensor: $d=5\%$
 SP = switch-on point, TP = teach point
 OUT: switch output
 Pu = pressure 0 - vacuum sensor
 Pe = pressure > 0 - pressure sensor

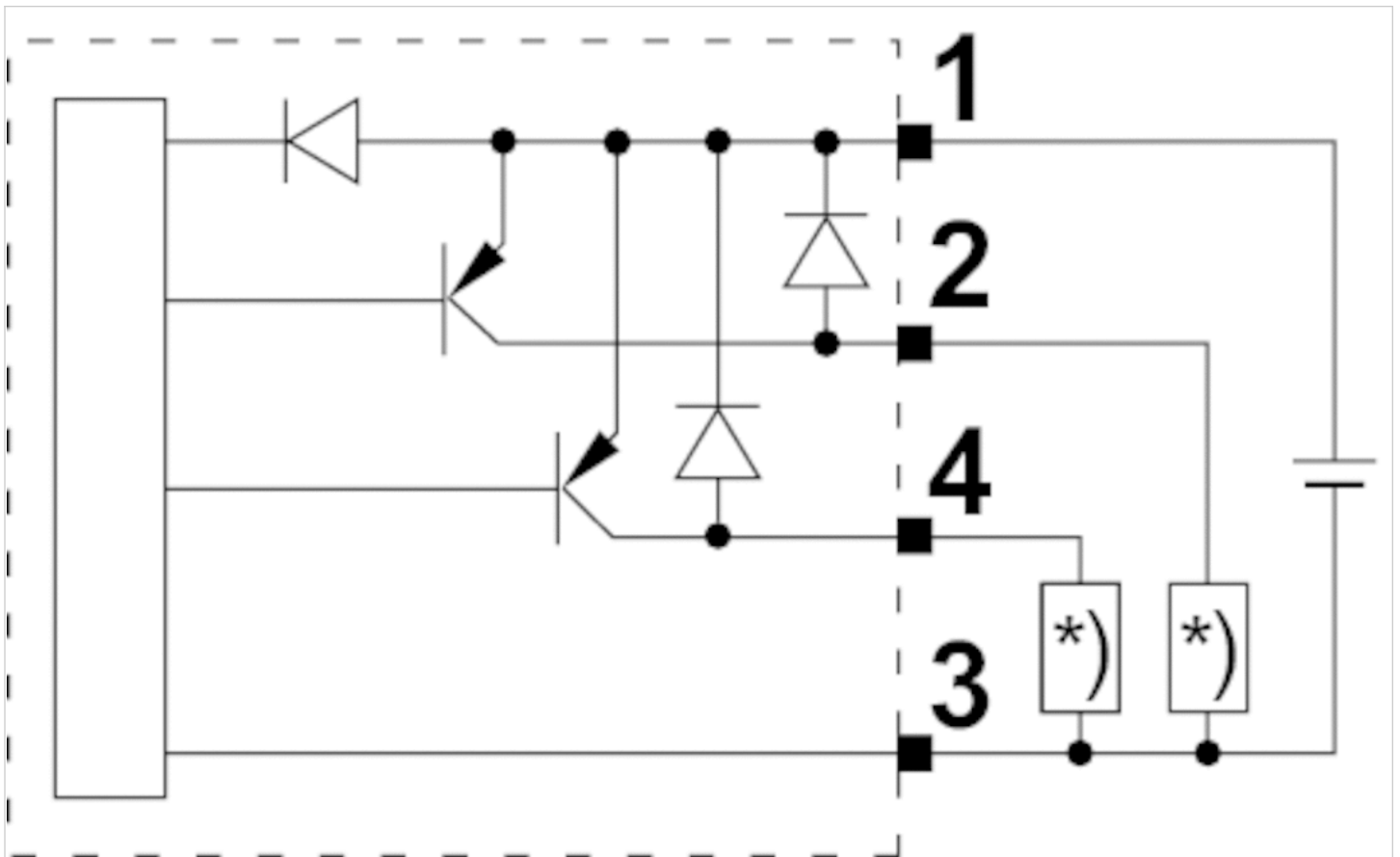
Switching function (adjustable hysteresis)



SP = switch-on point, rP = resetting point
 OUT: switch output
 Pu = pressure 0 - vacuum sensor
 Pe = pressure > 0 - pressure sensor

Circuit diagram

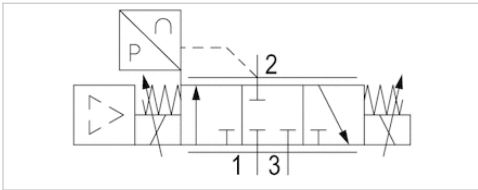
Block diagram



* Storable position

E/P pressure regulator, Series ED02

- Qn = 120 l/min
- Compressed air connection output G 1/8, 1/8 NPT
- Electr. connection via signal connection
- Signal connection input and output, Plug, M12, 5-pin



Version	Poppet valve
Mounting orientation	$\pm\alpha = 0 \dots 90^\circ$ $\pm\beta = 0 \dots 90^\circ$
Certificates	CE declaration of conformity
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 50 °C
Compressed air connection input	G 1/8 1/8 NPT
Compressed air connection output	G 1/8, 1/8 NPT
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	1 mg/m ³
Nominal flow Qn	120 l/min
Control	Analog
DC operating voltage	24 V
Voltage tolerance DC	-20% / +20%
Hysteresis	0.01 bar
Permissible ripple	5%
Max. power consumption	300 mA
Protection class	IP65
Weight	0.32 kg
	Nominal flow Qn with working pressure 7 bar , with secondary pressure 6 bar and $\Delta p = 0.2$ bar

Technical data

Part No.	Pressure setting range min./max.	Nominal input value	Actual output value	Control
		Min./max.	Min./max.	
R414001197	0 ... -1 bar	0 ... 10 V	0 ... 10 V	Analog

Part No.	Fig.
R414001197	Fig. 2

Minimum working pressure = 0.5 bar + max. required secondary pressure, Additional pressure setting ranges available on request

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

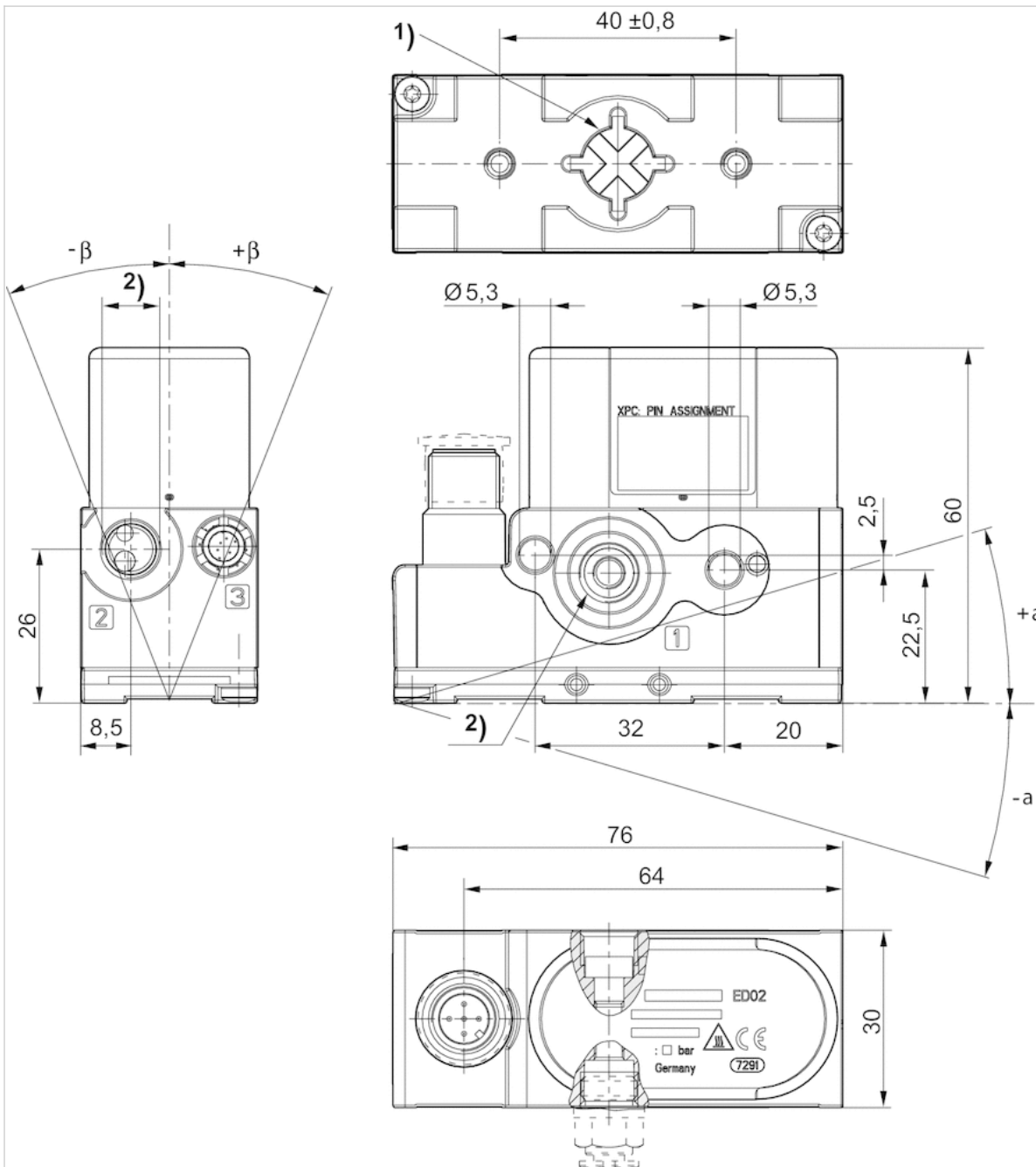
With oil-free, dry air, other installation positions are possible on request.
ED02 series valves can be assembled into blocks using tie rods (see accessories).
The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.
The compressed air connection threads fit both G 1/8 and 1/8 NPTF.

Technical information

Material	
Housing	Die-cast aluminum Steel
Seals	Hydrogenated acrylonitrile butadiene rubber

Dimensions

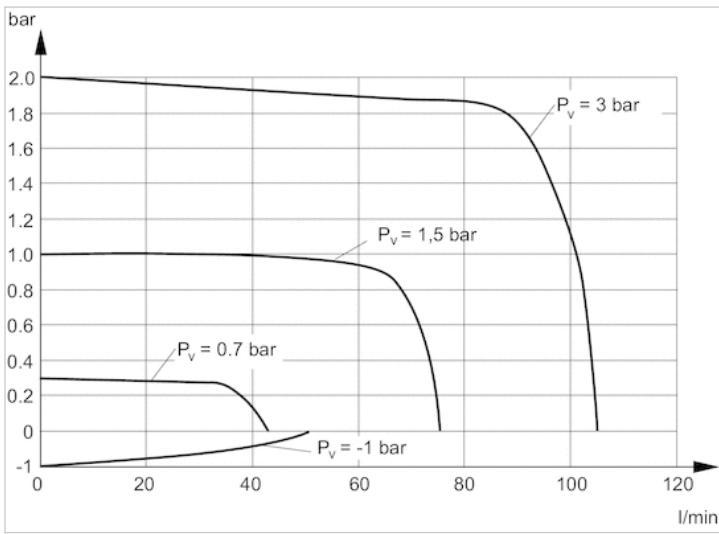
Dimensions



- 1) Housing exhaust
- 2) Universal threaded connection, suitable for G1/8 according to ISO 228/1:2000 and 1/8-27 NPTF

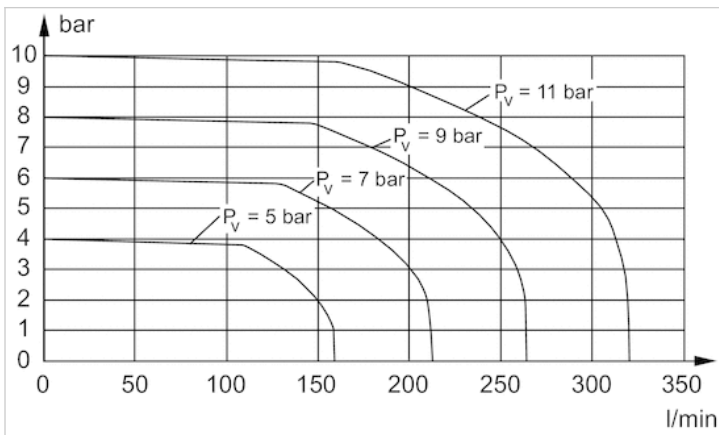
Diagrams

Flow diagram for pressure range up to 2 bar



P_v = Supply pressure

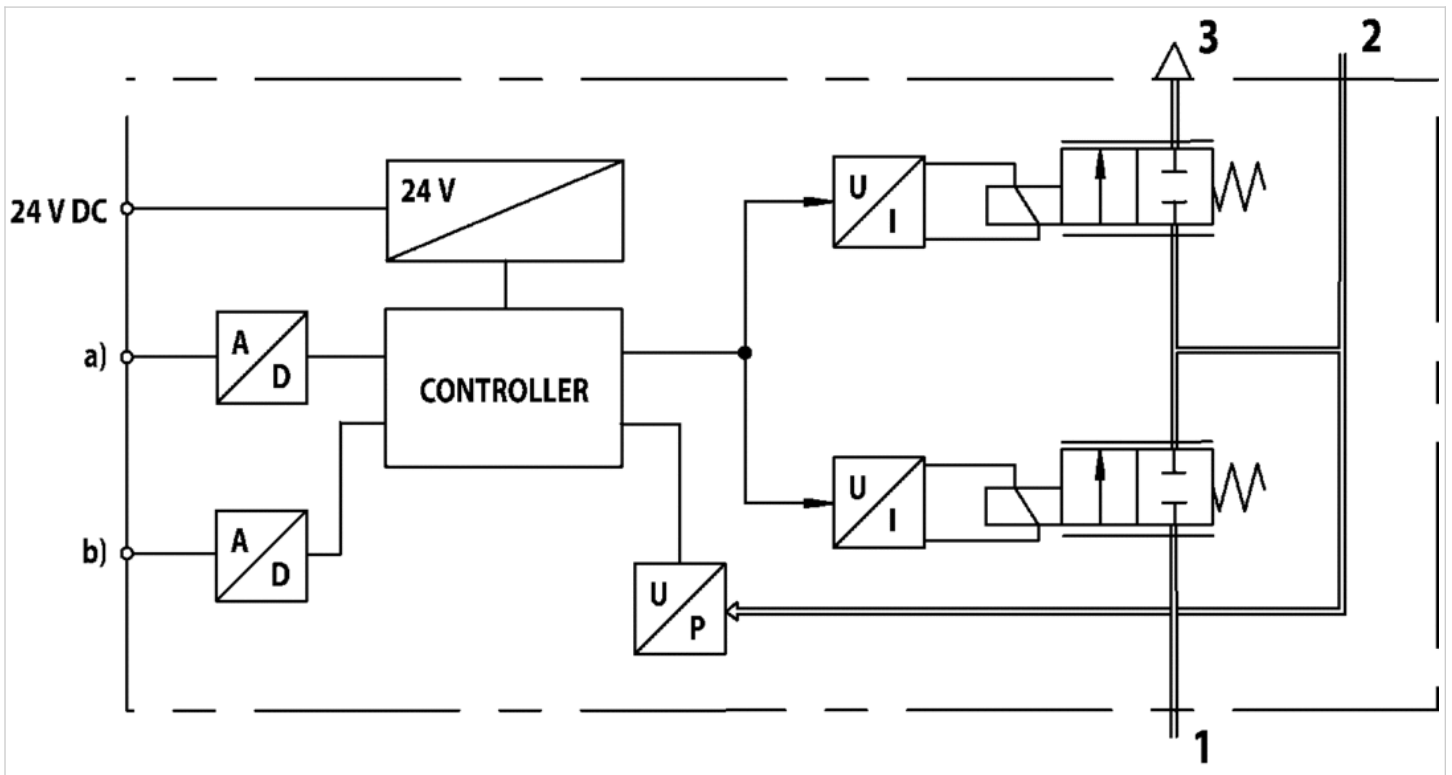
Durchflussdiagramm für Druckbereich bis 10 bar



P_v = Supply pressure

Circuit diagram

Functional diagram

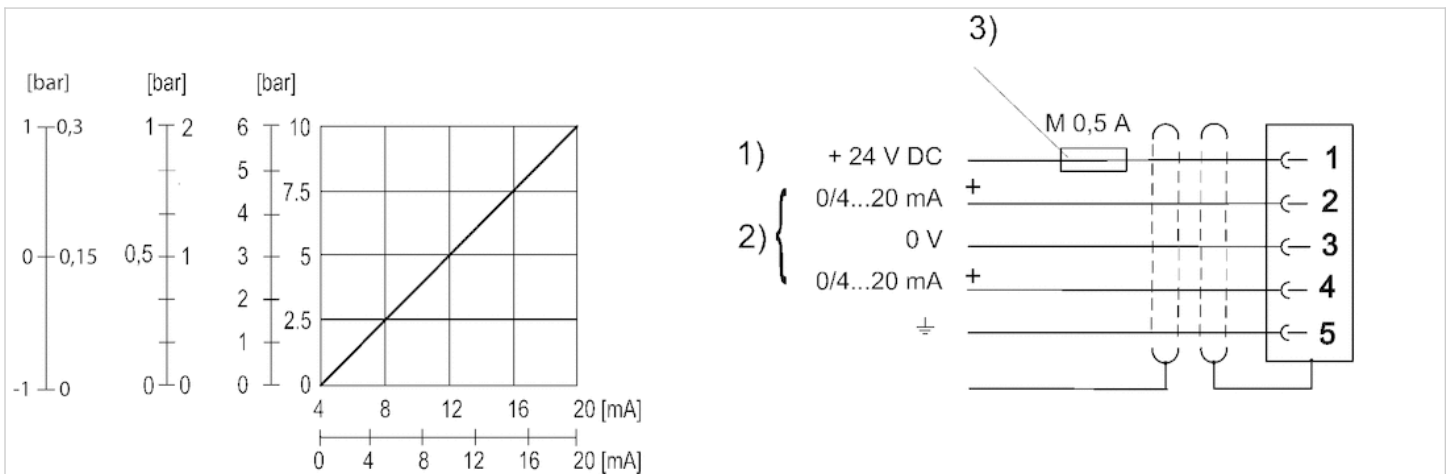


a) Nominal input value b) Actual output value

The E/P pressure control valve modulates the pressure corresponding to an analog electrical nominal input value.

- 1) Operating pressure
- 2) Working pressure
- 3) Exhaust

Fig. 1, Characteristic and pin assignment for current control with actual output value



1) Supply Voltage

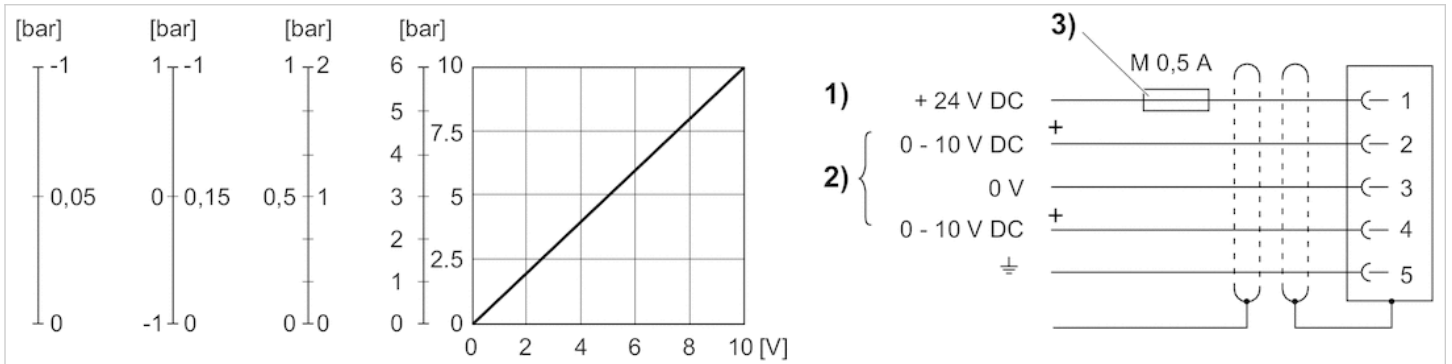
2) Actual value (pin 4) and nominal value (pin 2) are related to 0 V.

Current control (ohmic load 100 Ω). Actual value output (max. total resistance of downstream devices 500 Ω).

3) The operating voltage must be protected by an external M 0.5 A fuse.

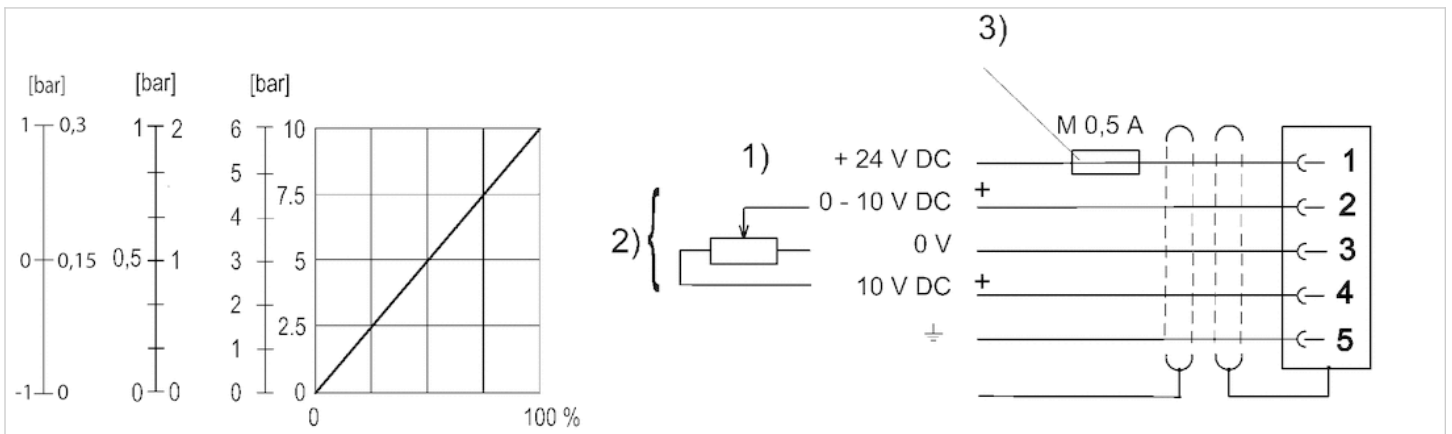
Connect the plug via a shielded cable to ensure EMC.

Fig. 2, Characteristic and pin assignment for voltage control with actual output value



- 1) Supply voltage 2) Actual value (pin 4) and nominal value (pin 2) are related to 0 V.
Min. load resistance of nominal value output = 1 kΩ.
- 3) The operating voltage must be protected by an external M 0.5 A fuse.
Connect the plug via a shielded cable to ensure EMC.

Fig. 3, Characteristic and pin assignment for potentiometer control without actual output value



- 1) Supply voltage
- 2) Potentiometer supply (pin 4) and nominal value (pin 2) are related to 0 V.
Potentiometer resistance min. 0-2 kΩ, max. 0-10 kΩ.
- 3) The operating voltage must be protected by an external M 0.5 A fuse.
Connect the plug via a shielded cable to ensure EMC.

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