

- > -1 ... 25 bar (-14,5 .... 362 psi)
- > Robust sensor for industrial applications
- > Linearity  $\pm 0,5\%$
- > For vacuum and overpressure
- > High safety overpressure
- > 2-wire technology (4 ... 20 mA)
- > Temperature compensated
- > Fluid connection with internal threaded or flange
- > Not for outdoor application



### Technical features

#### Medium:

Compressed air, filtered, lubricated or non-lubricated

#### Operating pressure:

-1 ... 25 bar (-14,5 .... 362 psi)

#### Port size:

G1/4, 1/4 NPT, or flange

#### Hysteresis and repeatability accuracy:

$< \pm 0,5\%$

(depending on measure range)

#### Residual ripple (max.):

10% (within supply voltage at 10 ... 32 V d.c.)

#### Linearity:

$< \pm 0,5\%$

(depending on measure range)

#### Electrical connection:

Plug (DIN EN 175301-803, form A)  
M 12 x 1 (IEC 947-5-2)

#### Output signal:

4 ... 20 mA (2-wire technology)

#### Supply voltage:

10 ... 32 V d.c. (2-wire technology)

#### Polarity:

Protected

#### Measure range:

See table overleaf

#### Load resistance:

See diagram

#### Interference emission:

EN 50081-1

#### Interference immunity:

EN 50082-2

#### Degree of protection:

IP65 acc to EN 60529  
(with plug mounted)

#### Weight:

0,15 kg

#### Temperature sensitivity:

Zero point  $< \pm 0,3\%$  FS/10K

Range  $< \pm 0,4\%$  FS/10K

#### Mounting position:

Optional

#### Ambient/Media temperature:

-10 ... +85°C (14 ... +185°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

#### Material:

Housing: aluminium anodized


Sensor: VMQ piezo-resistive

(with passive side to fluid)


O-ring: NBR (flange version only)

### Technical data

#### Standard models - with electrical connection (acc. to DIN EN 175301-803)

Symbol	Port size	Measuring range *2) (relative pressure)		Maximum over pressure *1)		Output signal (mA)	Technology	Drawing No.	Model *3)
		(bar)	(psi)	(bar)	(psi)				
	G1/4	-1 ... +1	-14,5 ... 14,5	10	145	4 ... 20	2-wire	1	0862081
	G1/4	0 ... 10	0 ... 145	30	435	4 ... 20	2-wire	1	0862181
	G1/4	0 ... 25	0 ... 362	40	580	4 ... 20	2-wire	1	0862381

#### Alternative models - with electrical connection M12 x 1

Symbol	Port size	Measuring range *2) (relative pressure)		Maximum over pressure *1)		Output signal (mA)	Technology	Drawing No.	Model *3)
		(bar)	(psi)	(bar)	(psi)				
	G1/4	-1 ... +1	-14,5 ... 14,5	10	145	4 ... 20	2-wire	1	0862082
	G1/4	0 ... 10	0 ... 145	30	435	4 ... 20	2-wire	1	0862182
	Flange	0 ... 10	0 ... 145	30	435	4 ... 20	2-wire	2	0862186
	G1/4	0 ... 25	0 ... 362	40	580	4 ... 20	2-wire	1	0862382
	Flange	0 ... 25	0 ... 362	40	580	4 ... 20	2-wire	2	0862386

\*1) Max. value = over pressure, Short-term pressure peaks are not allowed to exceed this limit value during operation.

\*2) Connector not included. Variants see page 3

\*3) Don't use for outdoor applications

Note: Connector is not included

**Accessories**

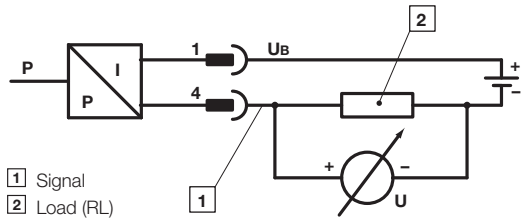
Pressure port reducing nipple	Surge damper	Cover
Page 3	Page 3	Page 3
0574767 (brass)	0574773 (brass)	0554737
0550083 (stainless steel)	0553258 (stainless steel)	

Connector DIN EN 175301-803	Connector M 12 x 1 4-pin, 90°	4-pin, straight		
0570110 (Form A)	0523058 (2 m cable, 4-core)	0523056 (without cable)	0523057 (2 m cable, 4-core)	0523055 (without cable)
	0523053 (5 m cable, 4-core)		0523052 (5 m cable, 4-core)	

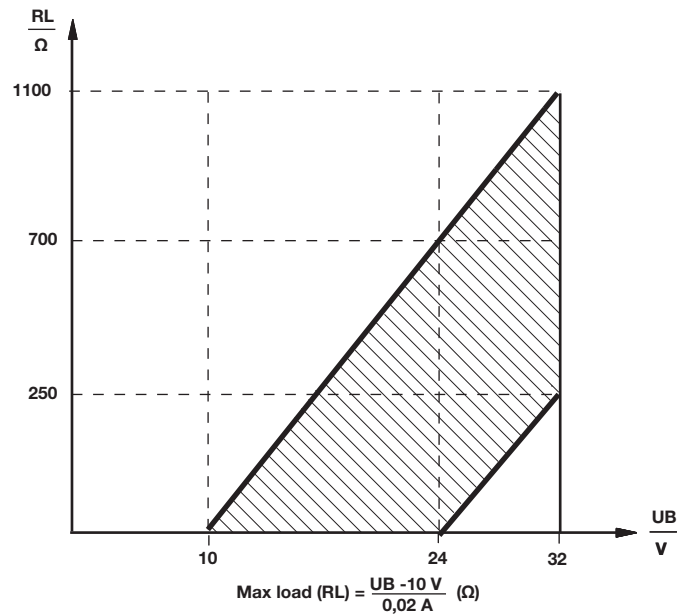
**Electrical connection M12 x 1**

Electrical connection, M12 x 1, PIN-No. 2-wire	
	+ UB 1
	GND —
	Signal 4

**Electrical diagram for 2-wire versions**  
4 ... 20 mA

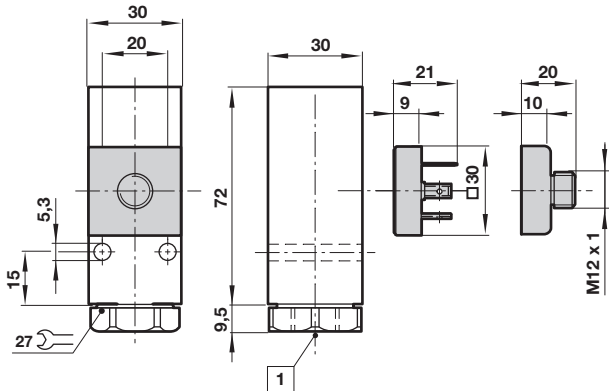


**Characteristic load curve**

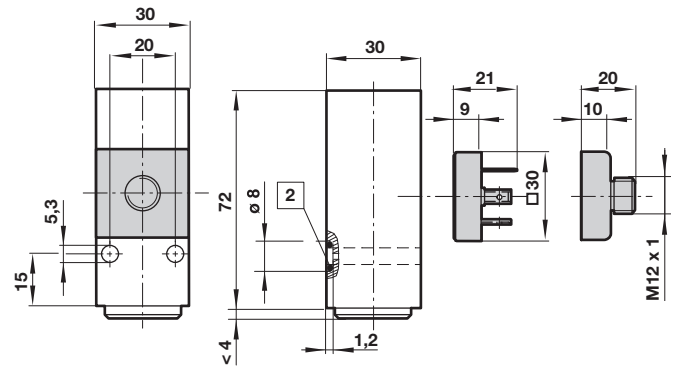


**Drawings**

1



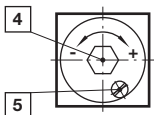
2



- 1 Fluid port
- 2 O-ring 5 x 1,5

**Adjustable switch point**

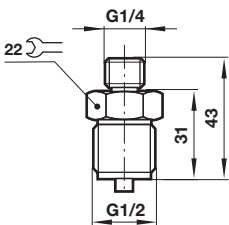
After releasing the locking screw  
 Clockwise rotation = increasing switch point  
 Counter clockwise rotation = decreasing the switch point



- 4 Switch point screw
- 5 Locking screw

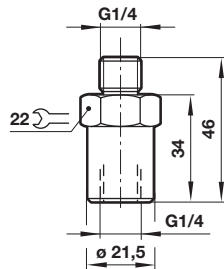
**Pressure port reducing nipple**

Model: 0574767 (brass)  
 0550083 (stainless steel)



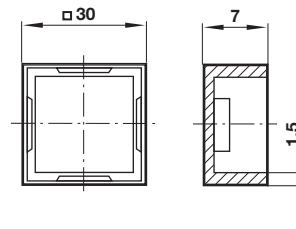
**Surge damper**

Model: 0574773 (brass)  
 0553258 (stainless steel)



**Cover**

Model: 0554737 (plastic)



**Warning**

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/data**«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI Precision Engineering, Norgren GmbH.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.