- **5 ... 250 bar**
  Port size: G1/4 or flange
- **Robust design**
- **Prefered for pressure monitoring**
- **High accuracy**

Technical features

Medium:
For neutral liquid fluids
Operation:
Diaphragm
Operating pressure:
5 ... 250 bar (72 ... 3625 psi)
Maximum over pressure:
See table below
Repeatability:
±2% of final value
(depending on regulating pressure)
Port size:
G1/4 or flange
Media viscosity:
Up to 1000 mm^2/s

Switching pressure difference/hysteresis:
Fixed
Switching cycles:
20 1/min
Switching element:
Microswitch with silver plated contacts
Mounting position:
Vertical, bottom pneumatic port
Degree of protection:
IP64 for DIN EN 175301-803 (DIN 43650) form A and cable gland

Electrical connection:
DIN EN 175301-803 (DIN 43650) form A or cable
Weight:
0,4 kg (0.88 lbs)
Ambient/Media temperature:
Ambient:
-10 ... +80°C (14 ... +176°F)
Media:
0 ... +80°C (0 ... +176°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

Materials:
Body: Aluminium
Sealing: NBR; FPM/PTFE

Technical data

Electrical connection acc. to DIN EN 175301-803, form A - Connectors are not scope of delivery
Electrical connection with cable gland (Pg 13,5) - Cable glands are scope of delivery

Symbol	Port size	Pressure range *1)		Switching pressure difference Lower range		Upper range		Electrical connection	Materials press sensor		Drawing	Model
		(bar)	(psi)	(bar)	(psi)	(bar)	(psi)		Body	Seal	No.	
	G1/4	5 ... 70	72 ... 1015	7	101	12	174	Cable gland	AL	NBR	1	0821051
	Flange	5 ... 70	72 ... 1015	7	101	12	174	Cable gland	AL	NBR	3	0821151
	G1/4	10 ... 160	145 ... 2320	9	130	18	261	Cable gland	AL	NBR	1	0821050
	Flange	10 ... 160	145 ... 2320	9	130	18	261	Cable gland	AL	NBR	3	0821150
	G1/4	50 ... 250	725 ... 3625	12	174	16	232	Cable gland	AL	FPM/PTFE	1	0821097
	G1/4	5 ... 70	72 ... 1015	7	101	12	174	Form A	AL	NBR	2	0821055

*1) Setpoints should be ideally in the middle of the switching pressure range. Reference pressure = atmospheric pressure. Switching pressure must not exceed the indicated values.

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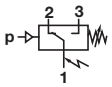
Accessories

Pressure port reducing nipple	Surge damper	Connector DIN EN 175301-803
		
Page 3	Page 3	
0574767 (brass)	0574773 (brass)	0570110 (Form A)
0550083 (stainless steel)	0553258 (stainless steel)	

Switching function



Connector
DIN EN 175301-803,
form A
Microswitch SPDT
Terminals 1 - 3:
Contacts close
on rising pressure.
Terminals 1 - 2:
Contacts open
on rising pressure.

Switching capacity
Commutator with silver plated contacts

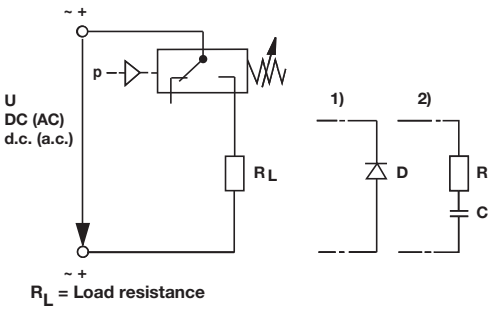
Current type	Load type	Max. permissible persistent current Imax [A] at U *1) 24 V	60 V	110 V	230 V	Electrical life-time *1)
a.c.	Resistive load	5	5	5	5	~ 1 x 10^6 Switching cycles
a.c.	Inductive load, cos φ 0,7	4	2,5	1,5	0,9	
d.c.	Resistive load	2	0,9	0,45	0,2	
d.c.	Inductive load, L/R [a] 10 ms	1	0,3	0,09	0,02	

Reference number: 60/min, Reference temperature + 30 °C (with a reference temperature of + 70 °C, Imax corresponds to 50% of the tabulated values only).
*1) At maximum current (at 50% of max. current, contact life is appr. 3 times as long).

Recommended circuit
Spark quenching and EMV intrinsically safe

1. Diode in parallel to inductive load.
Make sure polarity is correct when making connections.
Dimensioning of quenching diode (rectifier):
Rated voltage of diode $U_D \geq 1{,}4 \times U_S$.
Rated current of diode $I_N \geq I_{Load}$
Quick diode (D) with tv ≤ 200 ns, parallel to inductive load.

2. RC link in parallel to load in parallel to switching contact.
Dimensioning principles:
R_L in Ω ≈ 0,2 x R_{Load} in Ω
C in [µF] ≈ I_{Load} in [A]



R_L = Load resistance

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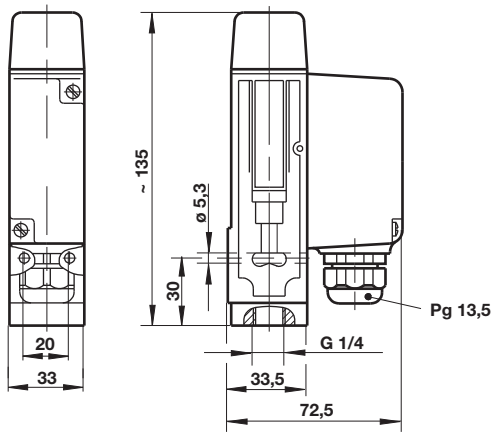
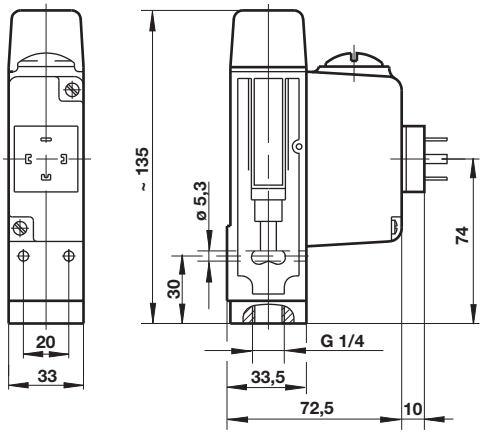
Drawings

Dimensions in mm
Projection/First angle

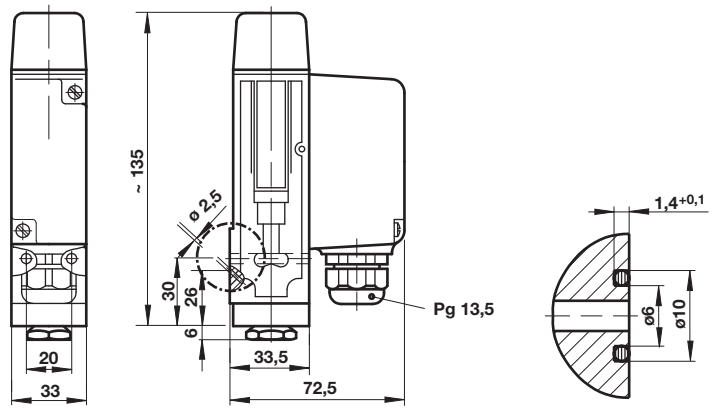
1



2

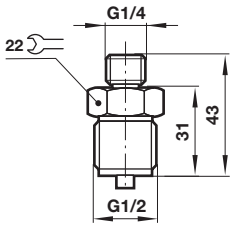


3



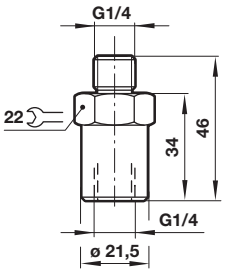
Pressure port reducing nipple

Model: 0574767 (brass)
0550083 (stainless steel)



Surge damper

Model: 0574773 (brass)
0553258 (stainless steel)



Warning

These products are intended for use in industrial hydraulic 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 NORGREN.

Through misuse, age, or malfunction, components used in hydraulic systems can fail in various modes.
The system designer is warned to consider the failure modes of all component parts used in hydraulic 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.

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