- **0 ... 600 bar (0 ... 8702 psi) Port size: G1/4 or flange**
- **Diagnostic function acc. to DESINA**
- **Display of system pressure in bar »programmable«**
- **Easy programming of switchpoints**
- **Economic solution for industrial applications**
- **Switching status indicated by 3-colour-LED-Display**
- **Free of lacquer impairing substances**
- **Application: not for outdoor use**

Technical features

Medium:
Gaseous and fluids, aggressive and neutral, not-combustible
Pressure range:
0 ... 600 bar (0 ... 8702 psi)
Switching pressure difference:
Programmable
Switching point:
Adjustable between
0 ... 100% of full scale (FS)
(smallest adjustable pressure switching difference between switching point and reset point ≥ 0,5% of full scale (FS))

Display:
Green:
Pressure ≥ SP1 (increasing pressure)
Pink:
Pressure ≤ RP (drop pressure)
Pressure < SP (increasing pressure)
Red:
System fault - display
Mounting position:
Optional
Total accuracy:
±1,5% of full scale (FS) -
(linearity, hysteresis, repeatability)
Shockproof:
30 g, xyz, DIN EN 60068-2-27
Vibrationproof:
10 g, 5 ... 500 Hz, xyz,
DIN EN 60068-2-6

Degree of protection acc. to DIN 40050:
IP65 (< 10 bar), IP67 (≥ 10 bar), with plug mounted)
Weight:
0,06 kg (13.23 lbs)
Temperature sensitivity:
Zero point: ±0,4% of final value (FS) pro 10° Kelvin
Range: ±0,4% of final value (FS) pro 10° Kelvin
Ambient/Media temperature:
Ambient:
-20 ... +80°C (-4 ... +176°F)
Media:
-25 ... + 80°C (-13 ... +176°F)
Air supply must be dry enough to avoid ice formation at temperature below +2°C (+35°F)

FS = full scale

Materials:
Housing:
Aluminium/Stainless steel
Sensor (fluid-affected parts):
Silizium/Aluminium

Electronical parameters

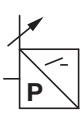
Electrical connection:
M12 x 1
Power supply:
UB = 18 ... 32 V d.c.
Permissible residual ripple:
10% (within UB)
Current consumption:
< 100 mA (without load current)

Switching mode:
PNP, potential-bound open collector switching to UB
Output signal:
Out 1: switching:
UB minus 1,5V/Imax. 250 mA
Out 2: diagnostic/switching
UB minus 1,5V/250 mA

Surge and short-circuit protection (Out1/Out2)
Response time:
< 10 ms
Service life:
Min. 50 million switching cycles
Switching logic Out 1 & 2:
NO/NC programmable

Electromagnetic compatibility:
According to EN 61326-1

Technical data

Symbol	Port size	Switching pressure range (bar)	(psi)	Over pressure *1 (bar)	(psi)	Output signal *2)	Model
	G1/4	0 ... 40	0 ... 580	100	1450	2 x PNP	0860140
	Flange	0 ... 40	0 ... 580	100	1450	2 x PNP	0860146
	G1/4	0 ... 100	0 ... 1450	175	2538	2 x PNP	0860150
	Flange	0 ... 100	0 ... 1450	175	2538	2 x PNP	0860156
	G1/4	0 ... 160	0 ... 2320	280	4061	2 x PNP	0860160
	Flange	0 ... 160	0 ... 2320	280	4061	2 x PNP	0860166
	G1/4	0 ... 250	0 ... 3625	400	5801	2 x PNP	0860170
	Flange	0 ... 250	0 ... 3625	400	5801	2 x PNP	0860176
	G1/4	0 ... 400	0 ... 5801	700	10152	2 x PNP	0860180
	Flange	0 ... 400	0 ... 5801	700	10152	2 x PNP	0860186
	G1/4	0 ... 600	0 ... 8702	1000	14503	2 x PNP	0860190
	Flange	0 ... 600	0 ... 8702	1000	14503	2 x PNP	0860196

Connector is not in scope of delivery

*1) Short-term pressure peaks are not allowed to exceed this limit value during operation. Operative utilization of the limit value is not permitted. The limit value corresponds to the maximum testing pressure

*2) Mode of OUT2 is programmable: Diagnostic acc. to DESINA / switching, switching logic of OUT1 and /OUT2 is programmable (NO/NC)

Accessories

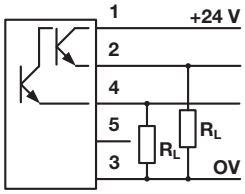
Pressure port reducing nipple	Surge damper
	
0574767 (brass)	0574773 (brass)
0550083 (stainless steel)	0553258 (stainless steel)

Connector M12 x 1			
4- or 5-pin, 90°	4-pin, 90°	4-pin, straight	4-pin, straight
			
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)	
0250081 (5 m cable, 5-core, on PE-requirement *1)			

*1) Cable with screening

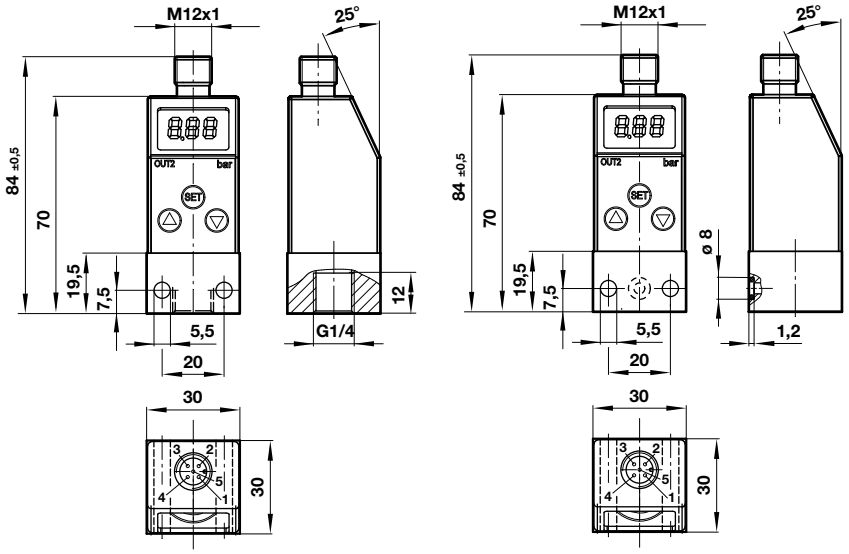
Electrical connection M12 x 1

PIN-No.	Signal	Cable
1	+ UB	brown
2	Out 2 (PP) or DESINA	white
3	0 Volt	blue
4	Out 1 (PNP)	black
5	Not used	grey



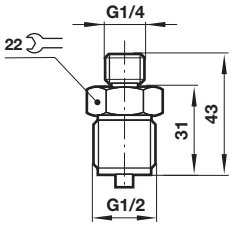
Dimensions

Dimensions in mm
Projection/First angle



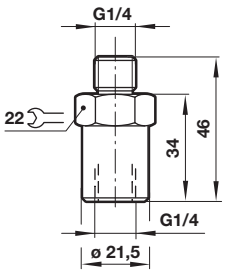
Pressure port reducing nipple

Model: 0574767 (brass)
0550083 (stainless steel)



Surge damper

Model: 0574773 (brass)
0553258 (stainless steel)



Warning

These products are intended for use in industrial 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 NORGREN.

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.