

**Display of system pressure
(pressure unit bar, psi, mpa programmable)**

**Easy programming of switchpoints
and extra functions**

Economic solution for industrial applications

Electronic lock

Switching status indicated by LED

Standard M 12 x 1 el. connection (IP 65)

With digital and analogue output

UL-Approval



Technical features

Medium:

For filtered, lubricated or non lubricated compressed air and neutral gases

Mounting:

Optional

Pressure range:

-1 ... 1 bar or 0 ... 16 bar

Switching pressure difference:

Programmable

Switching point:

Adjustable between 0 ... 100% of full scale (FS)

Reset point:

Adjustable between 0 ... 100% of full scale (FS)
(smallest adjustable pressure switching difference between switching point and reset point $\geq 0,5\%$ of full scale (FS))

Display:

LCD 4 digits, illuminated, pressure unit programmable bar, psi, mpa (customer specific pressure unit available on request)

Total accuracy:

$\pm 1,5\%$ of full scale (FS) - without temperature sensitivity

Linearität:

$\pm 0,2\% + 1$ Display step size

Shockproof:

30 g, xyz, DIN EN 60068-2-27

Vibrationproof:

3 g, 5 ... 500 Hz, xyz, DIN EN 60068-2-6

Degree of protection acc. to DIN 40050:

IP65 (with plug mounted)

Fluid-/Ambient temperature:

-10 ... +80°C/-10 ... +60°C

Air supply must be dry enough to avoid ice formation at temperature below +2°C.

Temperature sensitivity:

Zero point: $\pm 0,4\%$ of final value (FS) pro 10° Kelvin
Range: $\pm 0,4\%$ of final value (FS) pro 10° Kelvin

Weight:

0,09 kg

Materials

Housing: Aluminium/
Stainless steel

Sensor (fluid-affected parts):
Silizium/Aluminium

Electronical parameters

Electrical connection:

M 12 x 1

Power supply:

UB = 10 ... 32 V d.c.

15 ... 32 V d.c. (analogue)
polarity safe

Permissible residual ripple:

10% (within UB)

Current consumption:

< 50 mA

Switching mode:

PNP, potential-bound open collector switching to + UB

Output signal:

Digital: UB minus 1.5 V

Analogue: 4 ... 20 mA

Contact rating:

I_{max} = 500 mA (short circuit proof)

Switching time:

< 10 ms

Signal delay:

On/off 0 ... 20 s

Service life:

Min. 100 million switching cycles

Switching logic:

NO/NC programmable

Operating mode:

Standard, hysteresis and window mode separately selectable for each output

Electromagnetic compatibility:

Interface emission EN 61326
Interface emission EN 61326, part 1

Output signal 1 x PNP

Symbol	Switching pressure range (bar)	Over pressure* (bar)	Fluid connection	Output signal	Display step size (bar)	Model
	-1 ... +1	10	G 1/4	1 x PNP	0,005	0863012 *2)
	-1 ... +1	10	Flange	1 x PNP	0,005	0863016
	0 ... 16	30	G 1/4	1 x PNP	0,050	0863212 *2)
	0 ... 16	30	Flange	1 x PNP	0,050	0863216

Output signal 2 x PNP

Symbol	Switching pressure range (bar)	Over pressure* (bar)	Fluid connection	Output signal	Display step size (bar)	Model
	-1 ... +1	10	G 1/4	2 x PNP	0,005	0863022
	-1 ... +1	10	Flange	2 x PNP	0,005	0863026
	0 ... 16	30	G 1/4	2 x PNP	0,050	0863222 *2)
	0 ... 16	30	Flange	2 x PNP	0,050	0863226

Output signal 1 x PNP/1 x analogue 4 ... 20 mA

Symbol	Switching pressure range (bar)	Over pressure* (bar)	Fluid connection	Output signal	Display step size (bar)	Model
	-1 ... +1	10	G 1/4	1 x PNP/4 ... 20 mA	0,005	0863042
	0 ... 16	30	G 1/4	1 x PNP/4 ... 20 mA	0,050	0863242 *2)
	0 ... 16	30	Flange	1 x PNP/4 ... 20 mA	0,050	0863246

*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) Preference type

Option selector
0863 ★★★

Switching pressure range (bar)	Substitute
-1 ... 1	0
0 ... 16	2

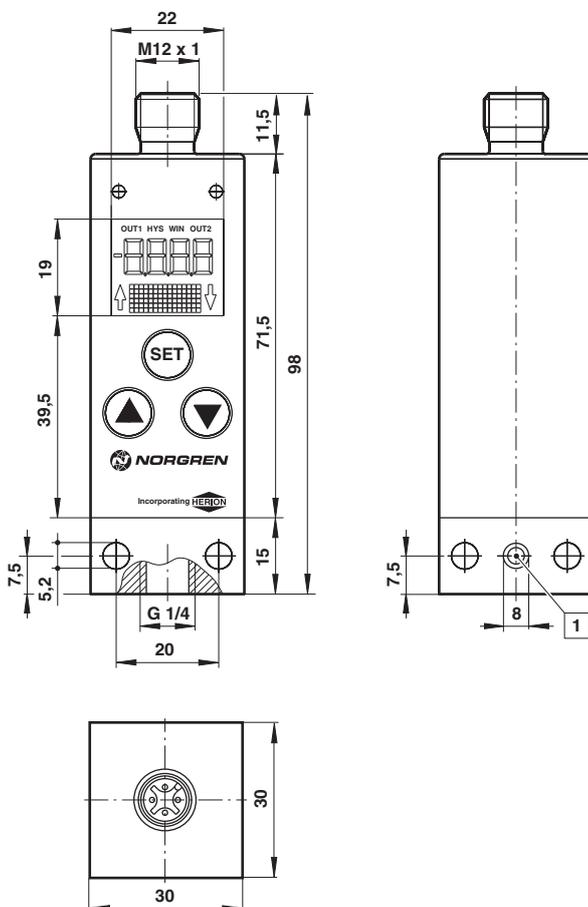
Output signal	Substitute
G 1/4	2
Flange	6
1/4 NPT	on request
Output signal	Substitute
1 x PNP	1
2 x PNP	2
1 x PNP/1 x analogue 4 ... 20 mA	4

Accessories

Pressure port reducing nipple	Surge damper	Connector M 12x1 90°	Connector, M 12x1, 90°	Connector, M 12x1, straight	Connector, M 12x1, straight
0574767 (Brass) 0550083 (Stainless steel)	0574773 (Brass) 0553258 (Stainless steel)	0523058 (2 m cable, 4-core) 0523053 (5 m cable, 4-core) 0250081 (5 m cable, 5-core, on PE-requirement*)	0523056 (90° without cable)	0523057 (2 m cable, 4-core) 0523052 (5 m cable, 4-core)	0523055 (without cable)

* Cable with screening

Dimensions



1 O-ring Ø5 x 1,5 (NBR 70)

Electrical connection M 12 x 1

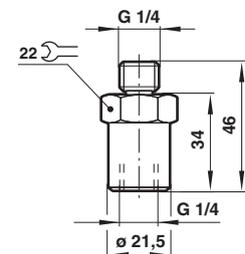
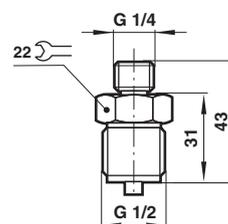


Electrical connection M 12 x 1		
PIN-Nr.	Signal	Cable
1	+ UB	brown
2	Out 2 (PNP) / analogue 4 ... 20 mA	white
3	0 Volt	blue
4	Out 1 (PNP)	black
5	PE (Protected Earth)	grey

Accessories

Pressure port reducing nipple
Material: Brass
Model: 0574767

Surge damper
Material: Brass
Model: 0574773



Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where values can exceed those listed under **Technical features/parameters**. 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 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.