

40D

Pneumatic electronic pressure sensor

- -1 ... 25 bar (-14,5 ... 362 psi)
- Space saving design
- Easy programming of set points
- Design with and without display
- Special functions selectable
- Analogue (1 to 5V) and digital outputs, as NO/NC programmable
- Revolving display
- Not for outdoor application



Technical features

Medium:

For non aggressive gases and dry, non lubricated compressed air

Operation:

Pressure sensors are converting a fluidic signal into digital output and a proportional analogue voltage output signal

Operating pressure:

-1 to 0 bar/0 to 10 bar

Port size:

G1/8 or M5

Linearity:

< 1% FS

Repeatability:

± 0,2 % of measuring range

Electrical connection:

M8 x 1 with 4 pins

Output signal:

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

Supply voltage:

UB = 10,8 bis 30 V DC, max. 10% residual ripple within UB

Power consumption:

≤ 35 mA

Contact rating:

I_{max} = 125 mA

Switching time:

< 2,5 ms

Out-/off switching delay:

Programmable 0 to 180 s

Display:

7 segments display, 3 digits

Switching indication:

LED red

Degree of protection:

IP65 acc to EN 60529 (with plug mounted)

Shock:

10 g, xyz

Vibration proof:

10 to 55 Hz, 1,5 mm, xyz, 2 h

Weight:

Ambient/Media temperature:

0 ... +50°C (0 ... +122°F)

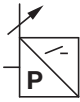
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

Housing: Plastic ABS - PC

Fluid ports: Nickel plated brass

Technical data

Symbol	Port size	Pressure range		Maximum over pressure *1)		Output signal	Display	Drawing No.	Model *2)
		(bar)	(psi)	(bar)	(psi)				
	G1/8 or M5	-1 ... 0	-14,5 ... 0	5	72,5	1 x PNP/analogue 1 ... 5 V	NO	1	0862440
	G1/8 or M5	-1 ... 0	-14,5 ... 0	5	72,5	2 x PNP	Yes	2	0862441
	G1/8 or M5	0 ... 10	0 ... 145	12	174	2 x PNP	Yes	2	0862442


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

*2) Don't use for outdoor applications

Note: Connector is not included.

Accessories


Connector M8 x 1



0523449
(1,5 m cable,4-core)

0523447
(5 m cable,4-core)

Mounting bracket including adaptor flange




0523446
(1,5 m cable,4-core)

0523448
(5 m cable,4-core)

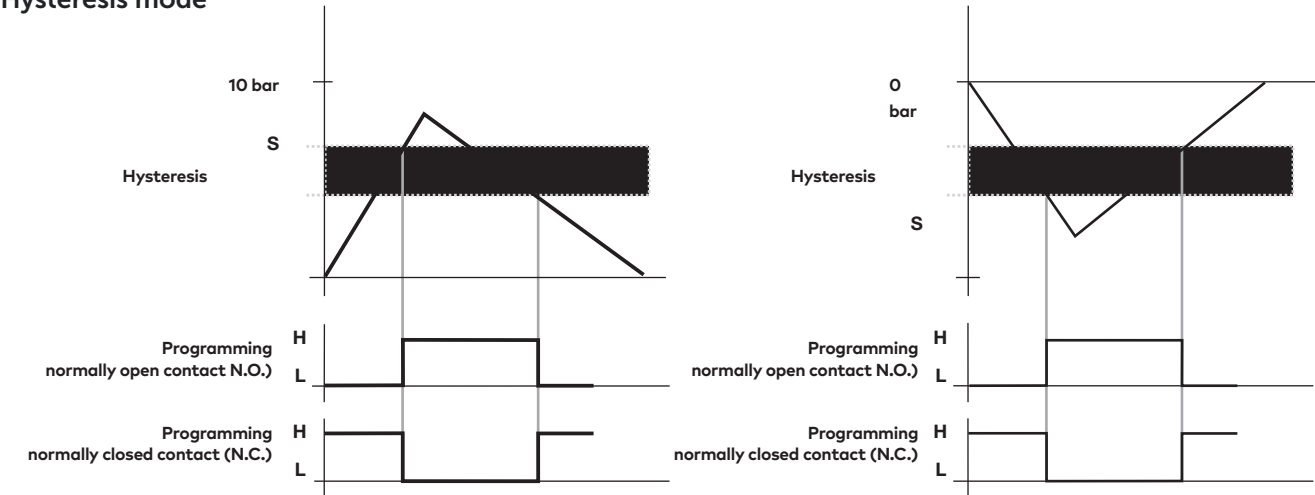
0523426 *1)

*1) complete with fixation screws and o-rings

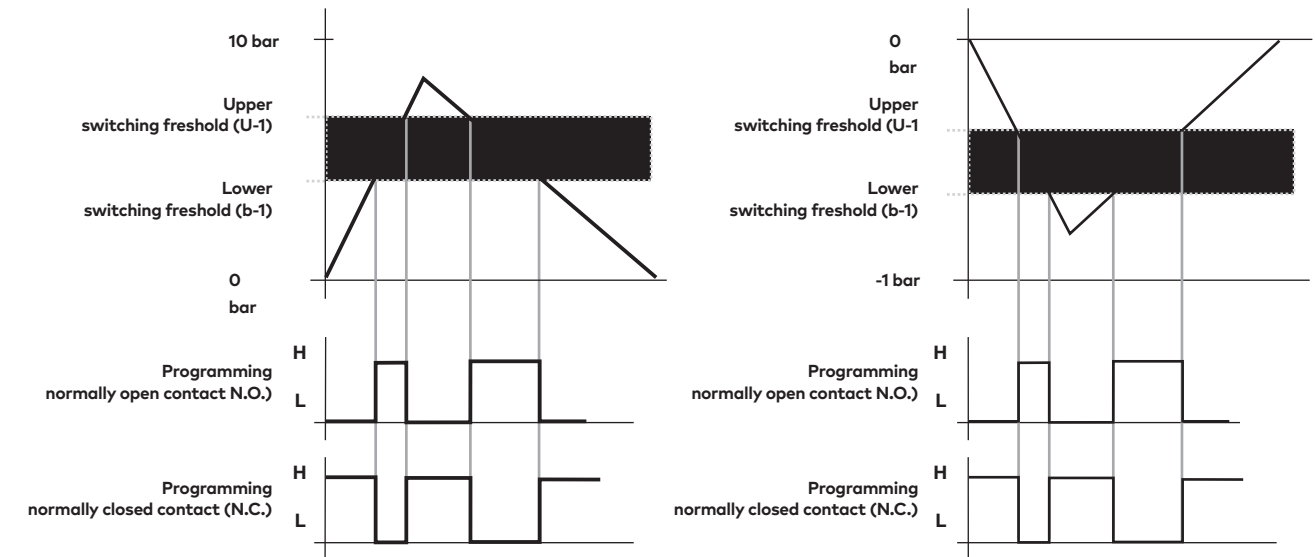
Electrical connection M8 x 1

Electrical connection, M8 x 1, PIN-No. Cable			
	+ UB 1 brown	1	brown
	PNP 2/analogue 1 to 5 V	2	white
	0 V	3	blue
	PNP 1	4	black

Functional diagram of switching outputs (example output 1)
Hysteresis mode

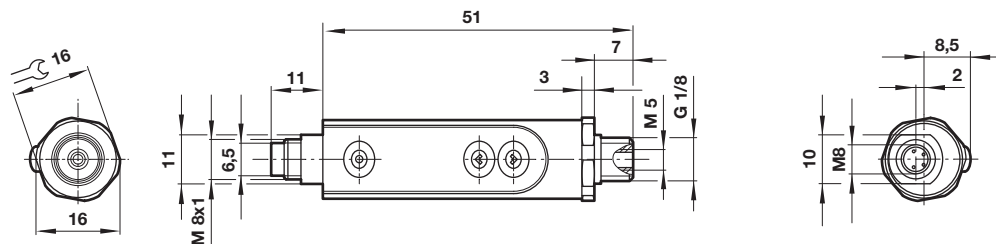


Comparator Modus

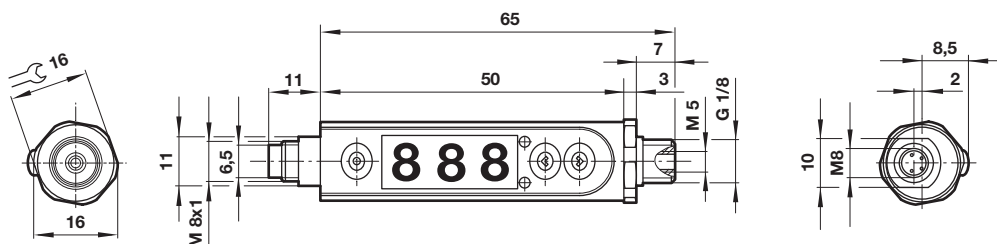


Drawings

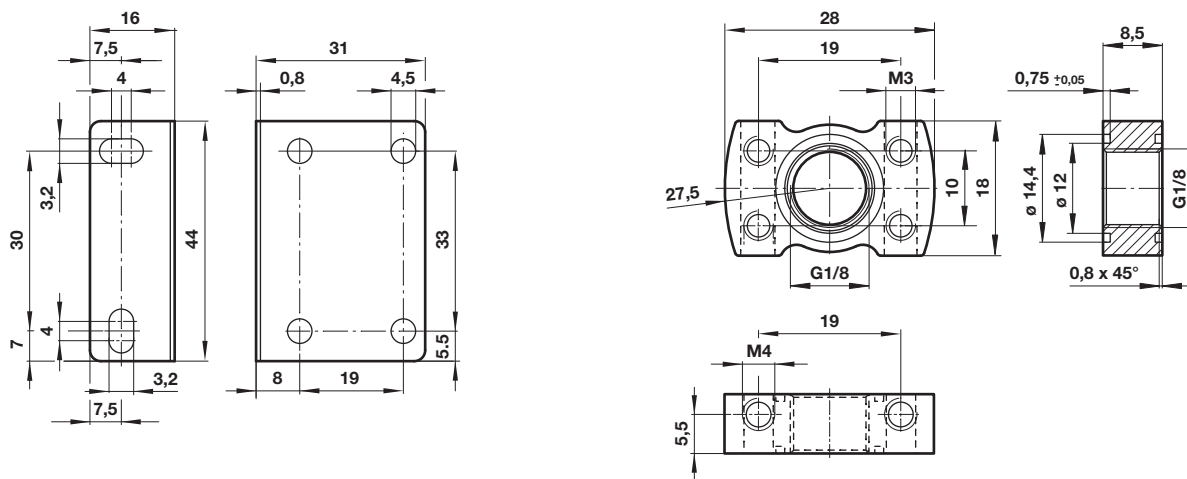
1



2



Mounting bracket including adaptor flange, fixation screws and o-rings



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.