

**Electronic pressure sensor for positive pressure and vacuum control  
-1 to 10 bar (relative pressure)  
ports: M5 (inside), G1/8 (outside)**

**Space saving design**

**Easy programming of set points**

**Design with and without display**

**Special functions selectable**

**Analogue (1 to 5V) and digital outputs,  
as n.o. / n.c. programmable**

**Revolving display**

**Not for outdoor application**

### Technical data

**Fluid:**

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

**Pressure range:**

Pneumatic: -1 to 0 bar/0 to 10 bar

**Ambient and fluid temperature:**

0°C to + 50°C

**Display:**

7 segments display, 3 digits

**Switching indication:**

LED red

**Linearity:**

< 1% FS

**Repeatability:**

± 0,2 % of measuring range

**Degree of protection:**

IP65 (acc. to DIN 40050)

**Shock:**

10 g, xyz

**Vibration proof:**

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

**Elektrical connection:**

M8 x 1 with 4 pins

**Voltage supply:**

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

**Power consumption:**

≤ 35 mA

**Output signal:**

Digital:  $U_B$  minus 1,5 V, analogue: 1 to 5 V

**Contact rating:**

$I_{max} = 125$  mA

**Switching time:**

< 2,5 ms

**Out-/off switching delay:**

Programmable 0 to 180 s



**Electromagnetic compatibility:**

Interference immunity  
acc. to EN 50081. part 1  
Interference immunity  
acc. to EN 50082. part 2

**Materials:**

Housing: plastic ABS – PC  
Fluid ports: brass nickel plated

**Ordering example**

See page 2

## Type numbers

Type *4)	Pressure range	Max. value *5)	Display	Output signal
0862440	-1 ... 0 bar	5 bar	no	1 x PNP / analogue 1 to 5 V
0862441	-1 ... 0 bar	5 bar	yes	2 x PNP
0862442	0 ... 10 bar	12 bar	yes	2 x PNP

\*4) Don't use for outdoor applications

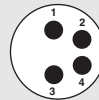
\*5) Max. value = over pressure, Short-term pressure peaks are not allowed to exceed this limit value during operation.  
Connector is not included.

## Option selector

08624★

Pressure range/output signal	Substitute
-1 to 0 bar/1xPNP/analogue 1 bis 5 V	0
-1 to 0 bar/2xPNP	1
0 to 10 bar/2xPNP	2

## Electrical connection (M8x1)



Signal	PIN	Cable
+ U <sub>B</sub>	1	brown
PNP 2/analogue 1 to 5 V	2	white
0 V	3	blue
PNP 1	4	black

## Ordering example

40D vacuum analogue (-1 to 0 bar)

Type: 0862440

## Accessories

<b>Connector, M8x1, straight</b>	<b>Connector, M8x1, 90°</b>	<b>Mounting bracket including adaptor flange</b>
0523449	0523446	0523426
(4-pin, 1,5 m cable)	(4-pin, 1,5 m cable)	(complete with fixation screws and o-rings)
0523447	0523448	
(4-pin, 5 m cable)	(4-pin, 5 m cable)	

## 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 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 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.

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

