

- Real time pressure display with backlight**
- Compact and robust design**
- Easy programming of set points and additional functions**
- Transistor output signals 1 x PNP, 2 x PNP, or 1 x PNP + 4 to 20 mA**
- Electronic lock**
- Switching status indicated by LED**
- Standard M12x1 electrical connection (IP 65)**
- For pneumatic, all fluid and hydraulic applications**



### Technical data

#### Medium

Pneumatic types: compressed air or neutral gases  
 All fluid types: gasses or liquids, including aggressive

#### Display

LCD 4 digits illuminated, pressure unit programmable for bar, psi, mpa

#### Mounting position

Optional

#### Operating pressure

Vac to 230 psi (pneumatic)  
 0 to 9100 psi (hydraulic/allfluid)

#### Temperature sensitivity (zero point)

0.4% of final value/10 K

#### Temperature sensitivity (range)

0.4% FS/10 K

#### Ambient temperature

14°F to 140°F (-10°C to 60°C)

#### Fluid temperature

14°F to 75°F (-10°C to 80°C)

#### Switching point

Adjustable between 0 and 100% FS

#### Reset point

Adjustable between 0 and 100% FS

#### Electrical connection

M12 x 1

Linearity

< 0.2% FS ±1 digit

Degree of protection to DIN 40 050

IP 65 (with mounted plug)

#### Materials

Housing: aluminum

Pneumatic version

Seal : FPM O-ring (FKM)

Sensor: silicon

Hydraulic/All fluid version

Porting block / sensor:

316 SS welded

### Model number - standard pneumatic models\*

Port size	Measuring range (psi) (relative pressure)	Maximum overpressure (psi)	Output signal	Model
1/4 NPT	Vac-15	145	1 x PNP	0863014000000000
Flange	Vac-15	145	1 x PNP	0863016000000000
1/4 NPT	Vac-15	145	2 x PNP	0863024000000000
Flange	Vac-15	145	2 x PNP	0863026000000000
1/4 NPT	Vac-15	145	1 x PNP / 4-20 mA	0863044000000000
Flange	Vac-15	145	1 x PNP / 4-20 mA	0863046000000000
1/4 NPT	0 - 230	435	1 x PNP	0863214000000000
Flange	0 - 230	435	1 x PNP	0863216000000000
1/4 NPT	0 - 230	435	2 x PNP	0863224000000000
Flange	0 - 230	435	2 x PNP	0863226000000000
1/4 NPT	0 - 230	435	1 x PNP / 4-20 mA	0863244000000000
Flange	0 - 230	435	1 x PNP / 4-20 mA	0863246000000000

\* M12 x 1 connector not included. Please see table on next page.

### Options selector 0863\*\*\*00000000

Pressure range (pneumatic)	Substitute	Fluid/electrical connection	Substitute
Vac-15 psi	0	G 1/4, M12 x 1	2
0 - 230 psi	2	1/4 NPT, M12 x 1	4
		Flange, M12 x 1	6
Pressure range (allfluid)	Substitute	Output signal	Substitute
0 - 145 psi	1	1 digital out	1
0 - 580 psi	3	2 digital out	2
0 - 1450 psi	4	1 digital out/4 - 20 mA**	4
0 - 2300 psi	5		
0 - 3600 psi	6		
0 - 5800 psi	7		
0 - 9100 psi	8		

\*\* 4-20 mA option not available on flange mounted versions.

### Electrical parameters

Electrical connection	M12 x 1
Power supply	10 – 32 V d.c. (polarity safe) digital models 15 – 32 V d.c. (polarity safe) analog models
Permissible residual ripple	10% (within 12 to 32 V)
Current consumption	<50 mA (plus load current)

### Electromagnetic compatibility

Interference emission	Conforming to EN 50081. Part 1
Interference immunity	Conforming to EN 50082. Part 2

### Electrical connection M12 x 1

Pin	Signal	Cable
1	Supply voltage	Brown
2	Out 2 (PNP) / analog 4 – 20 mA	White
3	Common	Blue
4	Out 1 (PNP)	Black
5	Earth ground	Grey

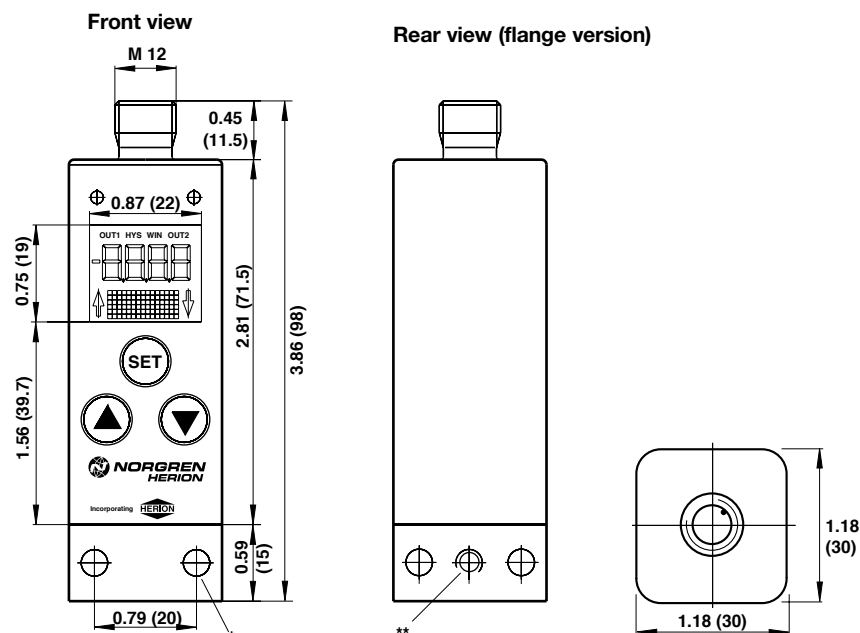
### Switching output

<b>Switching mode</b>	<b>PNP sourcing type transistor, suitable for inductive load</b>
Output voltage	Supply voltage -1.5 V
Analog output	4 – 20mA
Contact rating	I <sub>max</sub> = 500 mA (short-circuit proof)
Switching time	< 10 ms
Damping	5 ms – 0.64 sec programmable
Signal delay:	On/off 0 to 20 sec programmable
Service life	min. 100 million switching cycles
Switching logic	n.o. / n.c. programmable
Operating mode	Standard, hysteresis and window mode Separately selectable for each output

### Accessories

Part number	Connectors and cordsets (M12 x 1)*
8112184000000000	Mating connector 5-pin straight w/screw terminals, no cable

\* must be ordered separately



\* Suitable for M 5 x 35 or 10-24 screws

\*\* Flange diameter 8 x 1.2 deep, O-ring 4.47 x 1.78 (FPM 90)

Dimensions in inches (mm)