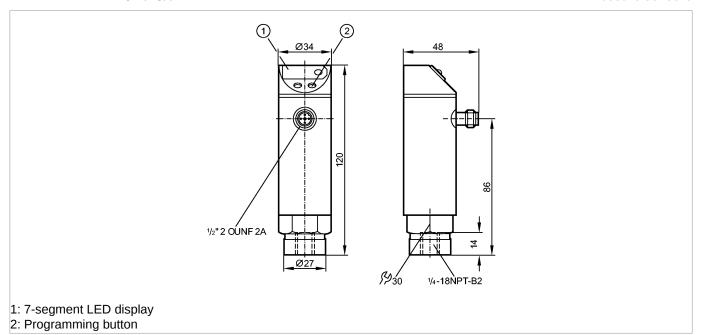
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PN4229

PN-1-1-RBN14-HFBOW/LS/ /V



Pressure sensors







Product characteristics	
Electronic pressure monitor	
Quick disconnect	
Function programmable	
Process connection: 1/4" NPT	
Switching output	
7-segment LED display	
Measuring range: -11 bar / -3030 inHg / -100100 kPa	

Application			
Application	Type of pressure: relative pressure Liquids and gases		
Pressure rating	20 bar	590 inHg	2000 kPa
Bursting pressure min.	50 bar	1476 inHg	5000 kPa
Medium temperature [°C]		-2580	

Medium temperature	[]	-2500
Electrical data		
Electrical design		AC / triac
Operating voltage	[V]	85265 AC
Nominal voltage	[V]	90250 AC (4565 Hz)
Voltage tolerance	[%]	-5 / +10
Current consumption	[mA]	< 10
Insulation resistance	[MΩ]	> 100 (500 V DC)
Protection class		II
Reverse polarity protection	n	no

Outputs			
Output		Switching output	
Output function		normally open / closed programmable	
Current rating	[mA]	250; (70 °C); 1000 (60 °C); 1500 (45 °C); 2500 (20 °C)	
Voltage drop	[V]	< 2	
Short-circuit proof		no	

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Overload protection	no		
Switching frequency [Hz]	≤ 160		
Measuring / setting range			
Measuring range	-11 bar	-3030 inHg	-100100 kPa
Setting range			
Set point, SP	-0.971.00 bar	-2930 inHg	-97100 kPa
Reset point, rP	-0.990.98 bar	-3029 inHg	-9998 kPa
in steps of	0.01 bar	1 inHg	1 kPa
Accuracy / deviations			
Accuracy / deviations (in % of the span)			
Switch point accuracy		< ± 1.0	
Linearity		< ± 0.5	
Hysteresis		< ± 0.1	
Repeatability **)		< ± 0.1	
Long-term stability ***)		< ± 0.1	
Temperature coefficients (TEMPCO)	in the temperature range -25	80° C (in % of the span pe	r 10 K)
Greatest TEMPCO of the zero point		< ± 0.2	
Greatest TEMPCO of the span		< ± 0.3	
Reaction times			
Power-on delay time [s]	0.2		
Delay time programmable dS, dr [s]	0, 0.2,10, 11,50		
Damping for the switching output (dAP) [s]	04		
Integrated watchdog	yes		
Software / programming			
Programming options	hysteresis / window function; N.O. / N.C; on delay, off delay; damping; calibration of displayed values; display can be rotated / deactivated; display unit		
Adjustment of the switch point	Programming button		
Environment			
Ambient temperature [°C]		-2580	
Storage temperature [°C]	-40100		
Protection	IP 65		
Tests / approvals			
EMC	EN 61000-4-2 ESD EN 61000-4-3 HF ra EN 61000-4-4 Burs EN 61000-4-6 HF c	adiated: 10 V/m t: 2 kV	V AD
Shock resistance	DIN IEC 68-2-27:	50 g (11 ms)	
Vibration resistance	DIN IEC 68-2-6:	20 g (10200	0 Hz)
MTTF [Years]	224.58		
Mechanical data			
Process connection			
Materials (wetted parts)	stainless steel (303S22); ceramics; FPM (Viton)		
Housing materials	stainless steel (304S15); PC (Makrolon); PBT (Pocan); PA; FPM (Viton)		
Switching cycles min.	100 million		
Mainlet [Let]	0.070		

0.379

[kg]

Weight



PN4229

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Pressure sensors

Displays / operating elements		
Display	Switching status LED red	
	Function display 7-segment LED display	
	Measured values 7-segment LED display	

LLIACTRICAL	connection
I LICCUICAI	COHILECTION

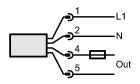
Connection 1/2" UNF-Connector

Wiring

Programming of the output function:

Hno = hysteresis / N.O. Hnc = hysteresis / N.C. Fno = window function / N.O. Fnc = window function / N.C.





Note: miniature fuse to IEC60127-2 sheet 1, \leq 5 A (fast acting)

Remarks		
Remarks		n.c. = not connected **) with temperature fluctuations < 10 K ***) in % of the span per year Recommendation: check the unit for reliable function after a short circuit.
Pack quantity	[piece]	1

 $ifm\ efector, inc. \bullet 1100\ Atwater\ Drive\ \bullet\ Malvern\ \bullet\ PA\ 19355\ -\ We\ reserve\ the\ right\ to\ make\ technical\ alterations\ without\ prior\ notice.\ -\ US\ -\ PN4229\ -\ 21.11.2012$