

Fixed Sensors, switches & displays

PS120 Digital Pressure Switch

Digital pressure gauge display & pressure switch with analogue output.

Available in standard and DESINA version with stylish rotatable casing and 4 digit easy to read pressure display. Optional with one or two independently programmable switching values and an analogue output of pressure values.



PS120 (formerly known as Multi-EPC)

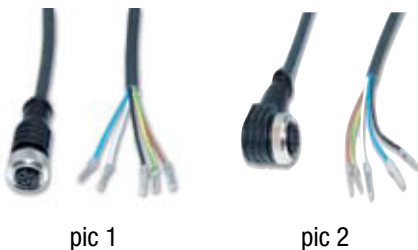
Technical data

Measuring principle	piezo-resistive
Pressure type	relative pressure
Standard output signal	4 ... 20 mA / 0 ... 20 mA (settable)
DESINA output signal	4 ... 20 mA
Electrical measuring connector	5 pole device connector, M12 x 0.75
Mechanical measuring connector	ISO 228 – G ¼ A
Protection type (EN 60529 / IEC 529)	IP 67 (only with screwed cable box)
Switching outputs	2 Mosfet high side switch PNP
Contact function	closer / opener
Switching voltage (VDC)	Supply voltage minus 1.5 VDC
Switching current	max. 0.7 A / switch
Short-circuit current	2.4 A / switch
Material casing / Membrane	GD-ZnAl4Cu1/ 1.4542
Weight	~ 350 g
Supply voltage U _b	15 ... 30 VDC, nominal 24 VDC (ripple < 5 % VSS of UD)
Current consumption	< 100 mA
Error limit (of final value)	± 0.5 %
Response time	≥ 10 ms
Medium temperature	-20 ... +85 °C
Environmental temperature	-20 ... +85 °C
Storage temperature	-30 ... +100 °C
Mounting orientation	arbitrary

Options & Ordering Information

Measuring range		Order number	
bar	MPa	PS 120	PS 129 (DESINA)
0 ... 25	0 ... 2.5	3160-10-40.01	3160-11-40.02
0 ... 100	0 ... 10	3160-10-16.01	3160-11-16.02
0 ... 250	0 ... 25	3160-10-17.01	3160-11-17.02
0 ... 400	0 ... 40	3160-10-15.01	3160-11-15.02
0 ... 700	0 ... 70	3160-10-39.01	3160-11-39.02

Connection cables for PS120



pic 1

pic 2

Description	Picture	Measuring instrument	Length Meters	Part number
5 pin M12x1 to open cable ends	1	PS120 / PS129	2.0	8824-L0-02.00
90° 5 pin M12x1 to open cable ends	2	PS120 / PS129	2.0	8824-L1-02.00

Fixed Sensors, switches & displays

SEG 1060 Fixed LED Display



The SEG 1060 is designed for fixed display & output of measurements from analogue or frequency sensors. Compact panel mounting assure easy system integration with simple programming from the 4 front keys.

Channels	1
Analogue inputs	1
Frequency inputs	1
Switching outputs	2

Channels and outputs

Measuring channels, analog/frequency	1 (switchable)
Signals	0/4 ... 20 mA, 0 ... 10 V, 0 Hz ... 10 kHz
A/D converter	12 bit
Measuring rate	100 Hz (analog and $f > 100$ Hz), $1/f + 15$ ms ($f < 100$ Hz)
Error limit	± 0.2 % FS + 1 digit
Electrical connection	clamping bar
Digital output channels	1 (option)
Signals	Relais output (opener / closer)
Max. load	250 VAC / 10 A
Reaction time	≤ 25 ms (standard signal), ≤ 0.5 Sek. (frequency > 4 Hz)
Analog output channels	1 (option)
Signals	0/4 ... 20 mA
D/A-converter	12 bit
Refresh rate	100 Hz or measuring rate
Error limits	± 0.3 % FS

Technical Specifications

Display	7-segment LED, red, 4-digit, height 14 mm
Power supply	230 VAC (type 1), 24 VDC (type 2)
Sensor power supply	24 V / 22 mA (type 1), 18 V / 35 mA (type 2), galvanically separated
Casing	ABS plastics
Dimensions (L x W x H)	115 x 48 x 96 mm
Front frame	48 x 96 mm
Weight	151 g (with option 182 g)
Protections type (front, mounted)	IP 54 (option IP 65)
Operation temperature	-20 ... +50 °C
Storage temperature	-30 ... +70 °C
Relative humidity	0 ... 80 % r. H. (not condensing)

Options & Ordering Information

Analogue input	Frequency input	Analog output	Threshold	Ub 24 VDC	Ub 230 VAC	
•	•	-	-	•	-	3192-04-10.00
•	•	•	•	•		3192-04-11.00
•	•	-	-	-	•	3192-04-20.00
•	•	•	•	-	•	3192-04-21.00

Many more fixed displays are available:-

- Low cost OEM displays with outputs
 - Differential / Calculation displays
 - Batching / Totalising displays
-please see our Display & Instrumentation section on page 170