ES-2.. ELECTRONIC SAFETY SWITCHING DEVICE FOR PRESSURE MONITORING

ES-20

Pressure limiter | Pressure switch | Safety pressure limiter | Pressure regulator

Monitoring of up to four independent pressure circuits

- Easy and highly precise limit value setting
- Robust and fail-safe design with integrated selftest functions for industrial applications
- ✓ Indication of measurements and alarms via display
- ✓ Wide range of service functions and data logging
- On-site operation on the unit and via smartphone



Technical data

Characteristics

Operating voltage	1632 V DC (max. 5.9 W)
Dimensions	150 x 60 x 42 mm (L x W x H)
Housing	Anodised aluminium
Parts in contact with the medium	Stainless steel (relative pressure version)
Protection class	IP65

Operating conditions

Pressure type	Relative pressure Differential pressure
Media temperature	-40+125 °C
Ambient temperature	-20+65 °C
Process connection	

Relativ	ve pressure n	G ¼" internal thread
Differe	ential pressure n	G 1/8" internal thread

Adapter available upon request

Electrical connections

Analogue current output	1 x 420 mA
Digital inputs/outputs	Configurable as 2 x alarm or 1 x alarm and 1 x remote unlocking

Load capacity of the switching contacts

DC 24 V:	AC 230 V:
DC1: 16 A	AC1: 16 A
DC13: 1,5 A	AC3: 10 A
	AC15: 7 A

Measuring range	Relative pressure	Differential pressure
nominal pressure	-1500 bar freely selectable	01 mbar 010 mbar 050 mbar 0100 mbar 0250 mbar 01,000 mbar
Overload pressure	2 x nominal pressure	10 x nominal pressure
Bursting pressure	4 x nominal pressure	15 x nominal pressure
Setting accuracy	0.1 % of nominal pressure	

Other measuring ranges available upon request

Applied standards and approvals

※ DIN EN 378

OGRL 2014/68/EU

DIN EN 12952-11

DIN EN 12953-9

DIN EN 61508:2010

DIN EN 12263:1998

Technical modifications reserved.

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Applications

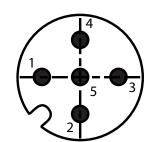
- Refrigeration systems and heat pumps
- ✓ Ventilation, heating and climate technology
- ✓ Filter and pump monitoring
- ✓ Hot water and steam boiler monitoring
- Process measurement technology
- Mechanical and plant engineering

Wiring diagram cable sockets & connectors

Connector 1: 5-pin M12 A-coded

Pin assignment (male):

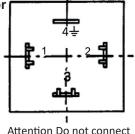
- 1: GND
- 2: 16...32 V DC (max. 3.2 W)
- 3: Digital I/O 1 (configurable)
- 4: Current output (4...20 mA)
- 5: Digital I/O 2 (configurable)



Connector 2: Rectangular connector according to EN 175301 form A

Pin assignment:

1 and 2: Switching channel 1 3 and 4: Switch channel 2 or, with cable bridge in connector, to switch channel 1 for automated switch channel self test

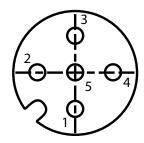


for nannel

Connector 3: 5-pin M12 A-coded

Pin assignment (female):

- 1: GND
- 2: Supply for ZT-S...
- 3: Digital I/O
- 4: n.c. / not connected
- 5: n.c. / not connected



Smart Pressostat App

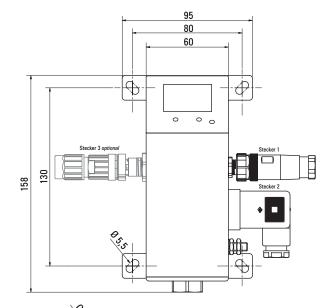


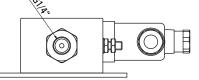
- Retrieval of settings- and test protocols
- Convenient setting of limit values& delay times
- Configuration of the device
- Management of multiple devices

More information: www.fluidio.de/es2x

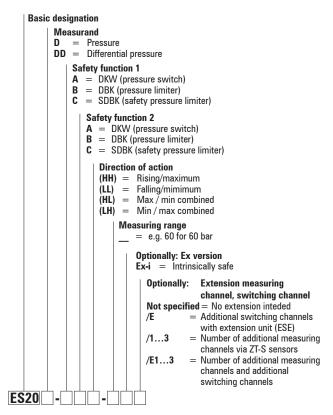


Device design and dimensions





Model number



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