

Electronic pressure control EDR



- Pressure range up to 16 bar
- For panel board mounting
- Relay output
- Output signal: 0 – 10 V

Electronic pressure switch with integrated relative pressure sensor for panel board mounting, quick-connect for pneumatic tube, two fixed adjustable switching points, relay output (isolated SPDT), analogue

voltage output 0-10 V via jack plug (look at accessories) and isolating transformer acc. to VDE 0550.

Function: The device evaluates the applied pressure. On exceeding an upper threshold the relay is deactivated; when falling below a lower threshold the relay is activated again. Both thresholds are adjustable.

Order reference	Measuring range (bar)*	Max. perm. pressure (bar)	Max. inaccuracy at 25° C	Operating voltage U_B (V-DC)	Weight (in g)	Part No.
EDR 2	0,2 - 2	3	2,5 %	230	135	260271
EDR 16	1 - 16	25	2,5 %	230	135	260288

*adjustable in 0.1 bar steps

0 V = 0 bar / 10 V = measuring range end value

Accessories EDR

Order reference	Description	Weight (in g)	Part No.
KL-S	Jack 2.5 mm for analogue output connection (cable length 5 m)	15	260332

Technical operating data

Permissible operating voltage range	$\pm 10 \%$
Operating voltage influence at $\pm 10\%$ operating voltage fluctuation	$< 0,1 \%$
Duty factor ED	100 %
Permissible ambient and media temperature	-20°C bis +60°C
Permissible ambient humidity rel. humidity, non-condensing	10 % bis 90 %
Permissible storage temperature	-40°C bis +80°C
Clearance and creepage distances	VDE 0110
Working position	any position
Power consumption	max. 1 VA

Pressure connection

Quick-connect suitable pneumatic tube e.g.	6 x 1 mm Festo PAN
--	--------------------

Output signal

Analogue voltage signal max. 5 mA short-circuit proof	0 - 10 V
---	----------

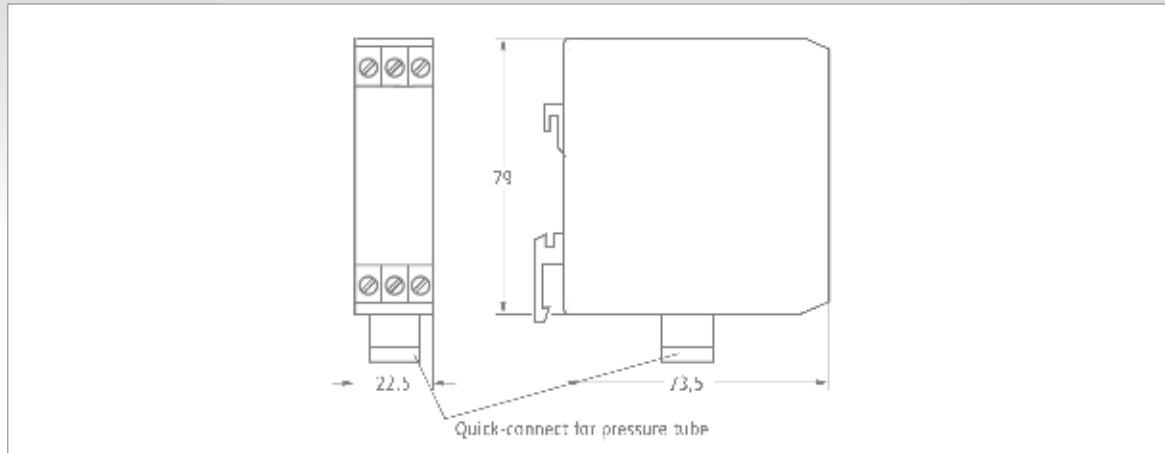
Enclosure

Material	ABS flameproof, UL-approved
Mounting	snap on 35 mm DIN-rail connector acc. to EN 50 035
Enclosure-protection	IP 40
Protection against shock	acc. VBG 4
Terminals	Cage clamps
Cross section	2,5 mm ²
Weight	135 g
Male jack plug Jack 2,5 mm	2,5 mm

Power section

Series voltage acc. to VDE 0660 and VDE 0110 Group C	250 V-AC
Maximum continuous current per contact	6 A-AC
Maximum switching capacity per contact	1.500 VA (AC) 50 W (DC)
Mechanical life Cycles	ca. 1×10^7
Electrical life (max. load) Cycles	ca. 2×10^5

Dimensions EDR



Circuit Diagram EDR

