

# Pressure Switch EDS 300 shipping applications 

## Description:

The EDS 300 is a compact, electronic pressure switch with digital display. The pressure measurement is based on a strain gauge sensor cell in stainless steel. All parts in contact with fluid are in stainless steel, and are welded together. Since no seals are required in the sensor interior, leakage is eliminated. Two relay switching outputs with N/O function and an additional analogue output signal ( $4 . .20 \mathrm{~mA}$ ) enable the pressure switch to be incorporated into modern control systems. The switch points and the corresponding hystereses can easily be adjusted via the key pad.
For optimum adaptation to a particular application, the instrument has many additional setting parameters, e.g. switching direction of the relays or switching delay times.
Fields of application are pressure or limit monitoring on marine transmissions, diesel engines, pumps and general hydraulic and pneumatic systems.

## Approvals:

- American Bureau of Shipping
- Lloyds Register of Ships


Lloyd's Register

- Det Norske Veritas Germanischer Lloyd

- Bureau Veritas


Other approvals on request

## 2 switching outputs <br> Analogue output

Display

## Technical data:



## Setting options:

All settings available on the EDS 300 are grouped in 2 easy-to-navigate menus. In order to prevent unauthorised adjustment of the device, a programming lock can be set.

## Setting ranges for the switching outputs:

Switch point function

| Measuring range in bar | Switch point in bar | Hysteresis <br> in bar | Increment* in bar |
| :---: | :---: | :---: | :---: |
| -1.. 5 | -0.85 .. 5 | 0.05 .. 5.9 | 0.05 |
| 0.. 6 | 0.15 .. 6 | 0.05.. 5.9 | 0.05 |
| 0.. 16 | 0.3 .. 16 | 0.1 .. 15.8 | 0.1 |
| 0.. 40 | 0.6 .. 40 | 0.2 .. 39.6 | 0.2 |
| $0 . .100$ | 1.5 .. 100 | 0.5 .. 99.0 | 0.5 |
| $0 . .250$ | 3.0 .. 250 | 1.0 .. 248.0 | 1.0 |
| $0 . .400$ | 6.0 .. 400 | 2.0 .. 396.0 | 2.0 |
| 0 .. 600 | 15.0 .. 600 | 5.0 .. 590.0 | 5.0 |

* All ranges given in the table can be adjusted by the increments shown.


## Additional functions:

- Scale of the measuring range adjustable (bar or psi)
- Switching direction of the relays adjustable (N/C or N/O function)
- Switch-on and switch-off delay adjustable from 0.0 .. 75.0 seconds
- Choice of display (actual pressure, peak value, switch point 1 , switch point 2 , display off)
- Subsequent correction of zero point in the range $\pm 3 \%$ FS possible


## Pin connections:

## DIN EN 175201-804



| Pin | EDS 347-4 |
| :--- | :--- |
| 1 | $+\mathrm{U}_{\mathrm{B}}$ |
| 2 | Centre relay 1 and 2 |
| 3 | Relay contact 1 (SP1) |
| 4 | 0 V |
| 5 | Analogue |
| 6 | Relay contact 2 (SP2) |
| $\perp$ | Housing |

## Dimensions:



## Model code:

EDS 3 4 $\underline{7}-\underline{4}-\underline{X X X}-\underline{S X X}$
Mechanical connection
$4=$ G1/4 A ISO 1179-2

## Electrical connection

7 = male DIN EN 175201-804, 6 pole + PE
(ZBE 10 mating connector not supplied)
Output
$4=2$ switching outputs and 1 analogue output
Measuring ranges in bar
006; 016; 040; 100; 250; 400; 600

## Modification number

S00 = version in bar (except -1 .. 5 bar)
S13 = vacuum version -1 .. 5 bar (in connection with measuring range "006")

Accessories available: (not supplied with instrument)
ZBE 10 mating connector DIN EN 175201-804, 6 pole + PE, right-angle Part no.: 654527
ZBM 300 clamp for wall-mounting - screw-type fitting - Part no.: 906385
ZBM 310 clamp for wall-mounting - weld-type fitting - Part no.: 6011511
More detailed information on accessories as well as on further accessories such as mating connectors can be found in the Accessories brochure.

## Note:

The information in this brochure relates to the operating conditions and applications described.
For applications or operating conditions not described, please contact the relevant technical department.
Subject to technical modifications.

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