HYロAC INTERNATIONAL


Description: The EDS 3400 is a compact, electronic pressure switch with an integral digital display for measuring relative pressure in the high pressure rang The instrument has a stainless steel
measurement cell with thin-film strain gauge. The instrument can have one or two switching outputs and there is the option of an additional analogue output signal ( $4 . .20 \mathrm{~mA}$ or $0 . .10 \mathrm{~V}$
selectable). A special design feature of the EDS 3400 is that the display can be moved in two planes. The unit can be installed in almost any mounting position and the display can be turned
to the optimum position with to the optimum position without
the usual additional expense of mechanical adapter. The 4 -digit display can indicate the pressure in bar, psi or MPa. The user can select the particular measurement unit. When changing to
different measurement unit, the EDS 3400 automatically converts the switching settings to the new unit of measurement. In addition, the
EDS 3400 is also available in a EDS 3400 is also available in a The main applications of the EDS 3400 are primarily in hydraulics and pneumatics, as well as in refrigeration and air conditioning
technology. technology.
Special features

- 1 or 2 PNP transisto
switching outputs, up to 1.2 A load
Accuracy
- Accuracy $\leq \pm 1 \%$ Fs
( 4 .. $20 \mathrm{~mA} / 0$.. 10 V )
- 4-digit display
- Optimum alignment, can be
rotated in two planes (axes)
- Measured value can be displayed in
bar, psi or MPa
- Easy operation due to key
programming
- Switching points and switch-back hystereses can
independently
- Many useful additional functions
- Option of Desina®-compliant
pin configuration with
diagnostic function

Electronic

## Pressure Switch

EDS 3400


Model code:
EDS 34 X X - X - XXXX - 000
Mechanical connection
$4=$ G1/4 A DIN 3852 (male)

Electrical connection
$6=M 121,4$
M12x1, 4 pole, male
only possible on output models " 1 ", " 2 " and " 3 "
$8=\mathrm{M} 12 \times 1,5$ pole, male
only possible on output model "5"

## Output

$1=1$ switching output
only in conjunction with electrical connection type " 6
$2=2$ switching outputs
only in conjunction with electrical connection type " 6 " $3=1$ switching output and 1 analogue output
$5=2$ only in conjunction with electrical connection type "6"
$=2$ switching outputs and 1 analogue output
only in conjunction with electrical connection type " 8 "

## Pressure ranges in bar

## Modification number

$000=$ Standard

Model code:
DESINA ${ }^{\circledR}$-compliant or
can be connected to DESINA ${ }^{\circledR}$
EDS $34 \mathrm{X} 8-\mathrm{X}-\underline{\mathrm{XXXX}}-\underline{\mathrm{DOO}}$

- Switching mode of the switching outputs djustable (switch point function or
window function)
- Switching direction of the switching outputs adjustable (N/C or N/O function)
- Switch-on and switch-back delay
adjustable from 0.00 .. 99.99 seconds
- Choice of display (actual pressure,
peak value, switch point 1 ,
- Display filter for smoothing the display
- Display filter for smoothing the disp
value during pressure pulsations
- Analogue output signal selectable
$4 . .20 \mathrm{~mA}$ or $0 . .10 \mathrm{~V}$ (optional)
- Pressure orn ...
measurement units bar, psi, MPa. The scaling can also be adapted to indicate force, weight, etc.


## EDS 3400 for self diagnostics

## Ele

The DESINA ${ }^{\circledR}$-compliant pressure switch has been specially developed for customers in the machine tool and
machine building sectors and complies machine building sectors and co
with the DESINA ${ }^{\oplus}$ specification.
A diagnostic signal enables errors to be detected and an "ERROR" message also appears in the display. The electrical connection is a round 5 -pole M12x1, ma
to IP 67 in accordance with DESINA requirements. -G1/4
Setting ranges for the switch outputs:

| Switch point function |  |  |  |
| :--- | :--- | :--- | :--- |
| Meas. <br> range <br> in bar | Switch <br> piont <br> in bar | Hysteresis <br> in bar | Incre- <br> ment <br> in bar |
| $0 . .40$ | $0.6 . .40$ | $0.2 . .39 .6$ | 0.1 |
| $0 . .100$ | $1.6 . .100$ | $0.6 . .99 .0$ | 0.2 |
| $0 . .250$ | $4.0 . .250$ | $1.5 . .247 .5$ | 0.5 |
| $0 . .400$ | $6.0 . .400$ | $2.00 . .396$ | 1 |
| $0 . .600$ | $9.0 . .600$ | $3.0 . .594$ | 1 |Mechanical connection

$4=$ G $1 / 4$ A DIN 3852 (male)
$4=$ G1/4 A DIN 3852 (male)
$9=$ threaded port DIN 3852-G14

## Electrical connection

8 = M12x1,5 pole, male

## Output

$\qquad$
$3=1$ switching output and 1 analogue output

Pressure ranges in bar
0040; 0100; 0250; 0400; 0600

Modification number
D00 = pin configuration conforms to DESINA ${ }^{\circledR}$
standard for self-diagnostics

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## Accessories:

Appropriate accessories, such as electrical connectors, mechanical adaptors, splash guards, clamps for wall-mounting etc can be found in the Accessories section.



M12 $\times 1,5$ pole


|  | Conforms | Can be |
| :--- | :--- | :--- |
|  | to | connected to |
|  | DESINA | DESINA |
| Pin | EDS | EDS |
|  | $34 \times 8-1$ | $34 \times 8-3$ |
| 1 | $+\mathrm{U}_{\mathrm{B}}$ | $+\mathrm{U}_{\mathrm{B}}$ |
| 2 | Diagnostics | Diagnostics |
| 3 | 0 V | 0 V |
| 4 | SP 1 | SP 1 |
| 5 | n.c. | Analogue |

HYIAC ELECTRONIC GMBH
Hauptstraß3e 27, D-66128 Saarbrü̈cke Tel. +49 (0) 08897 509-01
Fax $+49(0) 6897509-17$
Fax +49 (0) 08975 509-1726
E-Mail: electronic@hydac.com
Internet: www.hydac.com


[^0]:    Note:
    For units with a different modification number, please read the label or the technical amendment details supplied with the unit.

