# YDAC INTERNATIONAL



## **Electronic Pressure Switch** EDS 3300

#### **Description:**

The EDS 3300 is a compact electronic pressure switch with integrated digital display for relative pressure measurement in the low-pressure range. It has a ceramic measuring cell with thick-film strain gauge. The instrument can have one or two switching outputs, and there is the option of an additional switchable analogue output signal (4 .. 20 mA or 0 .. 10 V). A special design feature of the EDS 3300 is that the display can be moved in two planes (axes). The instrument can be installed in almost any mounting position and the display can be turned to the optimum position without the usual additional expense of a mechanical adapter. The 4-digit display can indicate the pressure in bar, psi or MPa. The user can select the particular unit of measurement. When changing to a different measurement unit, the instrument automatically converts all the switching settings to the new unit of measurement. In addition, the EDS 3300 is also available in a DESINA®-compliant version.

The main applications of the EDS 3300 are primarily in hydraulics and pneumatics, as well as in refrigeration and air conditioning technology.

#### Special features:

- 1 or 2 PNP transistor switching outputs, up to 1.2 A load per output
- Accuracy ≤ ± 1 % FS
- Optional switchable analogue output (4 .. 20 mA / 0 .. 10 V)
- 4-digit digital display
- Optimum alignment can be rotated in two axes
- Measured value can be displayed in bar, psi or MPa
- User-friendly due to key programming
- Switching points and switch-back hystereses can be adjusted independently
- Many useful additional functions
- Optional Desina®-compliant pin configuration with diagnostic function



### Technical data:

Input data

iiiput data		
Measuring ranges	-1 1; 1; 2.5; 6; 10; 16 bar	
Overload pressures	3; 3; 8; 18; 30; 48 bar	
Burst pressures	5; 5; 12; 30; 50; 80 bar	
Mechanical connection	G1/4 A DIN 3852	
	G1/2 B DIN-EN 837	
	Threaded port DIN 3852-G1/4	
Torque value	20 Nm (G1/4)	
	45 Nm (G1/2)	
Parts in contact with medium	Mech. connection: Stainless steel	
	Sensor cell: Ceramic	
	Seal: copper (G1/2) / FPM / EPDM	
	(as per model code)	
Output data		
Accuracy to DIN 16086,	≤ ± 0.5 % FS typ.	
Max. setting	≤ ± 1 % FS max.	
(display, analogue output)		
Repeatability	≤ ± 0.25 % FS max.	
Temperature drift	≤ ± 0.025 % FS / °C max. zero point	
	≤ ± 0.025 % FS / °C max. range	
Analogue output (optional)	-	
Signal	selectable:	
0.ga.	4 20 mA load resistance max. 500 $\Omega$	
	0 10 V load resistance min. 1 k $\Omega$	
Switch outputs		
Туре	PNP transistor output	
	max. 1.2 A	
Switching current		
Switching cycles	> 100 million	
Reaction time	< 10 ms	
Long-term drift	< + 0.3 % ES tup / year	
	≤ ± 0.3 % FS typ. / year	
DESINA® diagnostic signal (Pin 2)		
	OK: HIGH level / not OK: LOW level	
DESINA® diagnostic signal (Pin 2)	OK: HIGH level / not OK: LOW level	
DESINA® diagnostic signal (Pin 2) Function		
DESINA® diagnostic signal (Pin 2) Function Level Environmental conditions	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V	
DESINA® diagnostic signal (Pin 2) Function Level Environmental conditions Compensated temperature range	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V	
Punction Level Environmental conditions Compensated temperature range Operating temperature range	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V  -10 +70 °C  -25 +80 °C (-25 +60 °C acc. to UL spec.)	
Function Level Environmental conditions Compensated temperature range Operating temperature range Storage temperature range	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V  -10 +70 °C -25 +80 °C (-25 +60 °C acc. to UL spec.) -40 +80 °C	
Function Level Environmental conditions Compensated temperature range Operating temperature range Storage temperature range Fluid temperature range	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V  -10 +70 °C -25 +80 °C (-25 +60 °C acc. to UL spec.) -40 +80 °C -25 +80 °C	
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Function Level Environmental conditions Compensated temperature range Operating temperature range Storage temperature range Fluid temperature range    Mush mark   Mush mark mark   Mush mark mark mark mark mark mark mark mark	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V  -10 +70 °C -25 +80 °C (-25 +60 °C acc. to UL spec.) -40 +80 °C -25 +80 °C EN 61000-6-1 / 2 / 3 / 4 Certificate No. E318391	
Function Level Environmental conditions Compensated temperature range Operating temperature range Storage temperature range Fluid temperature range Fluid temperature range  C mark  C mark  Using mark  Vibration resistance to	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V  -10 +70 °C -25 +80 °C (-25 +60 °C acc. to UL spec.) -40 +80 °C -25 +80 °C EN 61000-6-1 / 2 / 3 / 4	
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Function Level Environmental conditions Compensated temperature range Operating temperature range Storage temperature range Fluid temperature range Fluid temperature range  wing mark Uibration resistance to DIN EN 60068-2-6 at 10 500 Hz Shock resistance to	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V  -10 +70 °C -25 +80 °C (-25 +60 °C acc. to UL spec.) -40 +80 °C -25 +80 °C EN 61000-6-1 / 2 / 3 / 4 Certificate No. E318391	
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Function Level Environmental conditions Compensated temperature range Operating temperature range Storage temperature range Fluid temperature range Fluid temperature range  ( mark	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V  -10 +70 °C -25 +80 °C (-25 +60 °C acc. to UL spec.) -40 +80 °C -25 +80 °C EN 61000-6-1 / 2 / 3 / 4 Certificate No. E318391 ≤ 10 g  ≤ 50 g  IP 67  9 35 V DC without analogue output	
Function Level Environmental conditions Compensated temperature range Operating temperature range Storage temperature range Fluid temperature range Fluid temperature range  ( mark	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V  -10 +70 °C -25 +80 °C (-25 +60 °C acc. to UL spec.) -40 +80 °C -25 +80 °C EN 61000-6-1 / 2 / 3 / 4 Certificate No. E318391 ≤ 10 g  ≤ 50 g  IP 67  9 35 V DC without analogue output 18 35 V DC with analogue output	
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Function Level Environmental conditions Compensated temperature range Operating temperature range Storage temperature range Fluid temperature range Fluid temperature range Fluid temperature range  I mark I wismark Vibration resistance to DIN EN 60068-2-6 at 10 500 Hz Shock resistance to DIN EN 60068-2-29 (11 ms) Protection class to IEC 60529 Other data Supply voltage for use acc. to UL spec.	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V  -10 +70 °C -25 +80 °C (-25 +60 °C acc. to UL spec.) -40 +80 °C -25 +80 °C EN 61000-6-1 / 2 / 3 / 4 Certificate No. E318391 ≤ 10 g  ≤ 50 g  IP 67  9 35 V DC without analogue output 18 35 V DC with analogue output - limited energy - according to 9.3 UL 61010; Class 2; UL 1310/1585; LPS UL 60950	
Function Level Environmental conditions Compensated temperature range Operating temperature range Storage temperature range Fluid temperature range Fluid temperature range  ( mark	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V  -10 +70 °C -25 +80 °C (-25 +60 °C acc. to UL spec.) -40 +80 °C -25 +80 °C EN 61000-6-1 / 2 / 3 / 4 Certificate No. E318391 ≤ 10 g  ≤ 50 g  IP 67  9 35 V DC without analogue output 18 35 V DC with analogue output - limited energy - according to 9.3 UL 61010; Class 2; UL 1310/1585; LPS UL 60950 max. 2.455 A total	
Function Level Environmental conditions Compensated temperature range Operating temperature range Storage temperature range Fluid temperature range Fluid temperature range Fluid temperature range  I mark I wismark Vibration resistance to DIN EN 60068-2-6 at 10 500 Hz Shock resistance to DIN EN 60068-2-29 (11 ms) Protection class to IEC 60529 Other data Supply voltage for use acc. to UL spec.	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V  -10 +70 °C -25 +80 °C (-25 +60 °C acc. to UL spec.) -40 +80 °C -25 +80 °C EN 61000-6-1 / 2 / 3 / 4 Certificate No. E318391 ≤ 10 g  ≤ 50 g  IP 67  9 35 V DC without analogue output 18 35 V DC with analogue output - limited energy - according to 9.3 UL 61010; Class 2; UL 1310/1585; LPS UL 60950 max. 2.455 A total max. 35 mA with inactive switching outputs	
Function Level Environmental conditions Compensated temperature range Operating temperature range Storage temperature range Fluid temperature range Fluid temperature range Fluid temperature range  I mark I wismark Vibration resistance to DIN EN 60068-2-6 at 10 500 Hz Shock resistance to DIN EN 60068-2-29 (11 ms) Protection class to IEC 60529 Other data Supply voltage for use acc. to UL spec.	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V  -10 +70 °C -25 +80 °C (-25 +60 °C acc. to UL spec.) -40 +80 °C -25 +80 °C EN 61000-6-1 / 2 / 3 / 4 Certificate No. E318391 ≤ 10 g  ≤ 50 g  IP 67  9 35 V DC without analogue output 18 35 V DC with analogue output - limited energy - according to 9.3 UL 61010; Class 2; UL 1310/1585; LPS UL 60950 max. 2.455 A total max. 35 mA with inactive switching outputs max. 55 mA with inactive switching outputs	
Function Level Environmental conditions Compensated temperature range Operating temperature range Storage temperature range Fluid temperature range Fluid temperature range Fluid temperature range Olin En 60068-2-6 at 10 500 Hz Shock resistance to DIN EN 60068-2-29 (11 ms) Protection class to IEC 60529 Other data Supply voltage for use acc. to UL spec.  Current consumption	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V  -10 +70 °C -25 +80 °C (-25 +60 °C acc. to UL spec.) -40 +80 °C -25 +80 °C EN 61000-6-1 / 2 / 3 / 4 Certificate No. E318391 ≤ 10 g  ≤ 50 g  IP 67  9 35 V DC without analogue output 18 35 V DC with analogue output - limited energy - according to 9.3 UL 61010; Class 2; UL 1310/1585; LPS UL 60950 max. 2.455 A total max. 35 mA with inactive switching outputs max. 55 mA with inactive switching outputs and analogue output	
Function Level Environmental conditions Compensated temperature range Operating temperature range Storage temperature range Fluid temperature range Fluid temperature range Fluid temperature range  I mark I wismark Vibration resistance to DIN EN 60068-2-6 at 10 500 Hz Shock resistance to DIN EN 60068-2-29 (11 ms) Protection class to IEC 60529 Other data Supply voltage for use acc. to UL spec.	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V  -10 +70 °C -25 +80 °C (-25 +60 °C acc. to UL spec.) -40 +80 °C -25 +80 °C EN 61000-6-1 / 2 / 3 / 4  Certificate No. E318391 ≤ 10 g  ≤ 50 g  IP 67  9 35 V DC without analogue output 18 35 V DC with analogue output - limited energy - according to 9.3 UL 61010; Class 2; UL 1310/1585; LPS UL 60950  max. 2.455 A total max. 35 mA with inactive switching outputs and analogue output 4-digit, LED, 7 segment, red,	
Function Level Environmental conditions Compensated temperature range Operating temperature range Storage temperature range Fluid temperature range Fluid temperature range Fluid temperature range Olin En 60068-2-6 at 10 500 Hz Shock resistance to DIN EN 60068-2-29 (11 ms) Protection class to IEC 60529 Other data Supply voltage for use acc. to UL spec.  Display	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V  -10 +70 °C  -25 +80 °C (-25 +60 °C acc. to UL spec.) -40 +80 °C  -25 +80 °C  EN 61000-6-1/2/3/4  Certificate No. E318391  ≤ 10 g  ≤ 50 g  IP 67  9 35 V DC without analogue output 18 35 V DC with analogue output - limited energy - according to 9.3 UL 61010; Class 2; UL 1310/1585; LPS UL 60950  max. 2.455 A total max. 35 mA with inactive switching outputs and analogue output  4-digit, LED, 7 segment, red, height of digits 7 mm	
Function Level Environmental conditions Compensated temperature range Operating temperature range Storage temperature range Fluid temperature range Fluid temperature range Fluid temperature range Olin En 60068-2-6 at 10 500 Hz Shock resistance to DIN EN 60068-2-29 (11 ms) Protection class to IEC 60529 Other data Supply voltage for use acc. to UL spec.  Current consumption	OK: HIGH level / not OK: LOW level HIGH: approx. +U <sub>B</sub> / LOW: < +0.3 V  -10 +70 °C -25 +80 °C (-25 +60 °C acc. to UL spec.) -40 +80 °C -25 +80 °C EN 61000-6-1 / 2 / 3 / 4 Certificate No. E318391 ≤ 10 g  ≤ 50 g  IP 67  9 35 V DC without analogue output 18 35 V DC with analogue output - limited energy - according to 9.3 UL 61010; Class 2; UL 1310/1585; LPS UL 60950  max. 2.455 A total max. 35 mA with inactive switching outputs and analogue output 4-digit, LED, 7 segment, red,	

Excess voltage, override and short circuit protection are provided. **FS** (Full Scale) = relative to complete measuring range Environmental conditions according to 1.4.2 UL 61010-1; C22.2 No 61010-1 Note:

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#### Setting options:

All settings offered by the EDS 3300 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 switch outputs:

#### Switching point function

Meas. range in bar	Switch point in bar	Hysteresis in bar	Incre- ment* in bar
-1 1	-0.97 1	-0.99 0.98	0.01
0 1	0.016 1	0.006 0.99	0.002
0 2.5	0.04 2.5	0.015 2.475	0.005
06	0.096	0.3 5.94	0.01
0 10	0.16 10	0.06 9.9	0.02
0 16	0.25 16	0.1 15.8	0.05

#### Window function

Meas. range in bar	Lower switch value in bar	Upper switch value in bar	Incre- ment* in bar
-1 1	-0.97 0.96	-0.95 0.98	0.01
0 1	0.016 0.982	0.024 0.99	0.002
0 2.5	0.04 2.455	0.06 2.475	0.005
0 6	0.09 5.89	0.14 5.94	0.01
0 10	0.16 9.82	0.24 9.9	0.02
0 16	0.25 15.7	0.4 15.8	0.05

All ranges given in the table are adjustable by the increments shown.

#### Additional functions:

- Switching mode of the switching outputs adjustable (switching point function or window function)
- Switching direction of the switching outputs adjustable (N/C or N/O function)
- Switch-on and switch-off delay adjustable from 0.00 .. 99.99 seconds
- Choice of display (actual pressure, peak value, switch point 1, switch point 2, display off)
- Display filter for smoothing the display value during pressure pulsations
- Analogue output signal selectable 4 .. 20 mA or 0 .. 10 V
- Pressure can be displayed in the measurement units bar, psi, MPa. The scaling can also be adapted to indicate force, weight, etc.

#### EDS 3300 for self diagnostics:



The DESINA®-compliant pressure switch has been specially developed for customers in the machine tool and mechanical engineering sectors and complies with the DESINA® 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 to IP 67 in accordance with DESINA® requirements.

#### Model code:

EDS 3 3 X X - X - XXXX - 000 - X 1

#### Mechanical connection

- = G1/2 B DIN-EN 837 (male)
- G1/4 A DIN 3852 (male)
- 9 = Threaded port DIN 3852-G1/4

#### Electrical connection

- Male M12x1, 4 pole only possible on output models "1", "2" and "3"
- 8 Male M12x1, 5 pole
- only possible on output model "5"

#### Output

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

#### Pressure ranges in bar

0001 (-1 .. 1); 01.0; 02.5; 06.0; 0010; 0016

#### Modification number -

000 = Standard

#### Seal material (in contact with fluid)

- = FPM seal (e.g.: for hydraulic oils)
- EPDM seal (e.g.: for water, refrigerants)

#### Material of connection (in contact with fluid)

= Stainless steel

#### Model code:

**DESINA®-compliant or** 

can be connected to DESINA®:



## EDS 3 3 X X - X - XXXX - D00 - X 1

#### Mechanical connection -

- 1 = G1/2 B DIN-EN 837 (male)
- = G1/4 A DIN 3852 (male)
- = Threaded port DIN 3852-G1/4

## Electrical connection

8 = Male M12x1, 5 pole

#### Output

- = 1 switching output
- 3 = 1 switching output and 1 analogue output

#### Pressure ranges in bar

0001 (-1 .. 1); 01.0; 02.5; 06.0; 0010; 0016

#### Modification number

D00 = DESINA®-compliant pin configuration for self-diagnostics

#### Seal material (in contact with fluid)

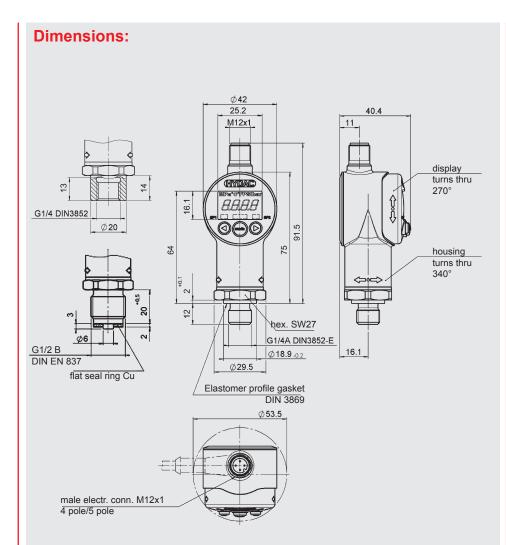
- F = FPM seal (e.g.: for hydraulic oils)
- E = EPDM seal (e.g.: for water, refrigerants)

#### Material of connection (in contact with fluid)

= Stainless steel

On instruments with a different modification number, please read the label or the technical amendment details supplied with the instrument.

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



Note:

The information in this brochure relates to

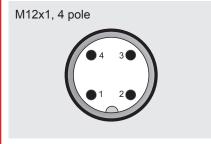
not described, please contact the relevant technical department.

applications described.
For applications or operating conditions

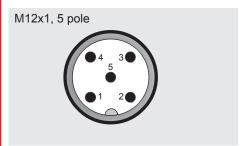
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the operating conditions and

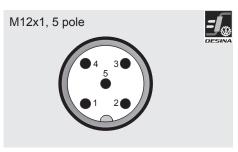
#### Pin connections:



Pin	EDS	EDS	EDS
	33X6-1	33X6-2	33X6-3
1	+U <sub>B</sub>	+U <sub>B</sub>	+U <sub>B</sub>
2	n.c.	SP 2	Analogue
3	0 V	0 V	0 V
4	SP 1	SP 1	SP 1



Pin	EDS
	33X8-5
1	+U <sub>B</sub>
2	Analogue
3	0 V
4	SP 1
5	SP 2



	DESINA®- compliant	Can be connected to DESINA®
Pin	EDS 33X8-1	EDS 33X8-3
1	+U <sub>B</sub>	+U <sub>B</sub>
2	Diagnostics	Diagnostics
3	0 V	0 V
4	SP 1	SP 1
5	n.c.	Analogue

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