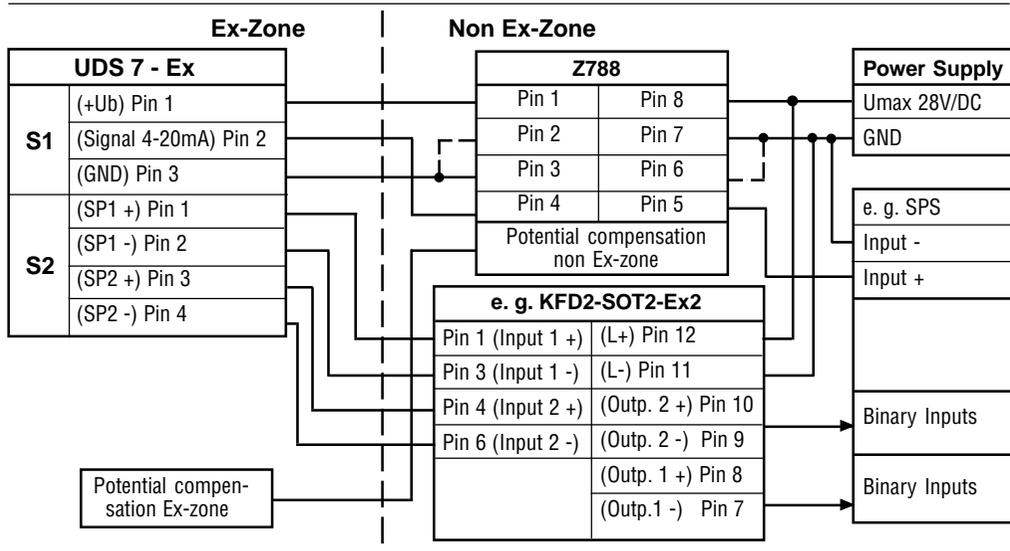


## Electrical connection diagram UDS 7 - Ex



## 4. Programming:

The setting menu is activated with the **mode** key. The dialog items are selected with the „↑“, and „↓“, keys. If the mode key is pressed again the corresponding value for the dialog item is shown and can be altered with the „↑“, and „↓“, keys. If the dialog with the unit is not continued within two minutes the device automatically returns to the measuring mode without accepting the new values. To terminate programming more quickly, you can switch back to the measuring mode (primary menu) from any item in the menu by holding the M-key pressed for five seconds. If the software lock has been activated, the values can be shown, but no changes made, i.e. when Level 0 is active („LOCK“ appears in the display when an attempt is made to change values).

## 5. Maintenance / Malfunction:

The pressure switch is maintenance free. Repairs and modifications of the switch must be done by the manufacturer exclusively.

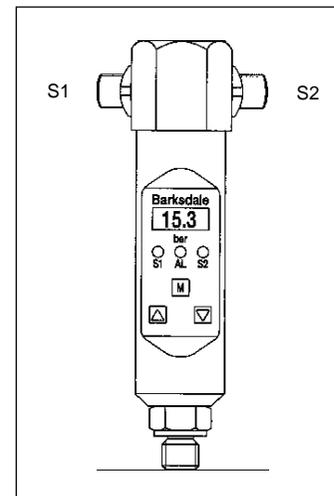
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CONTROL PRODUCTS

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## Operating Instructions Dual Pressure Switch UDS 7 - Ex

### Dimensions (in mm)



### Approval Data

Approval:	II 1 / 2 G EEx ia IIC T4	
Certificate No.:	TÜV 02 ATEX 1879X CE 0032	
Max. Ambient Temperature:	-20 °C...+80 °C	
Ex-Data:		
Supply-/Signal-Circuit (Plug S1)	Namur-Digital-Circuit (Plug S2)	
Ui1 ≤ 24 V DC (Supply)	Ui ≤ 10,5 V DC	
Ii1 ≤ 301 mA	Ii ≤ 13 mA	
Ui2 ≤ 9,56 V DC (Signal)	Pi ≤ 34 mW	
Ii2 ≤ 49 mA		
Li1/2 ≤ 37 µH		
Ci1/2 ≤ 35 nF		

## 1. Product description

### Intended Applications

- The dual pressure switch is a device to monitor system pressure and has two NAMUR switching outputs and one analog output.
- The instruments must only be installed in systems where the maximum pressure Pmax is not exceeded (according to the values on the type label).
- The tolerance limits acc. to the safety requirements of the ATEX-certificate must not be exceeded. (Is supplied with the unit.)
- **Attention:** This device is not designed to be used as the only safety relevant element in pressurized systems according to PED 97/23/EC.

## 2. Starting operations

### Only assemble or disassemble the device when depressurized!

#### Connecting the switch

- Mount the pressure switch from bottom to the fitting with a wrench hex 19 (1/4") resp. hex 22 with 45 Nm torque.
- The erection has to be made acc. DIN EN 60079-14, especially chapter 12. Power supply and analog output must run via the zener barrier Typ Z788 from Pepperl & Fuchs. The NAMUR switching outputs must run via an isolation amplifier (e. g. type KFD2-SOT2-Ex2 from Pepperl & Fuchs). In both cases please follow the connection instructions of the manufacturer.

## 3. Operation:

The pressure switch should be installed and operated only by authorized persons. After being switched on the UDS 7 runs through a self-test. The device is menu operated and configured with three keys on the front. With the „M“ key (= mode) you change between the dialog values and the adjusted / actual values. With the keys „↑“, „=“ up and „↓“, „=“ down you change between the dialog values in the menu or change the values / functions in the menus (see below: „List of functions“). If the dialog is not continued within two minutes the device automatically returns to the measuring mode. When the software lock is entered, „LOCK“ appears in the display when an attempt is made to change values.

