FOD-10

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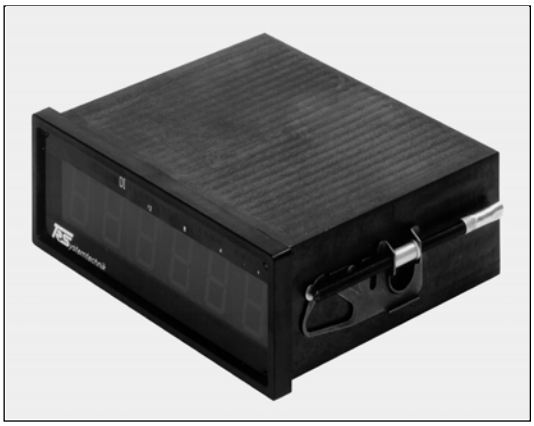

- **Art.-No.: 703-40001**
- **6-digit display for the mounting of front panel**
- **Ligthbus**
- **Decimal point variable**

General characteristic data

Operating voltage ..... 24VDC ± 20%
Baud rate ..... 2,5 Mbaud
Input current ..... 120 ma (all segments switched on, without options)
Data transmission ..... lightbus
Display ..... 7-segment LED, 6-digit, 20 mm high
Standard case ..... impact-resistant plastic (DIN43700)
Overall BxHxD ..... 144 mm x 48 mm x 115 mm without connector
Mounting dimensions front panel (mm) ..... 138+1mm x 45+0,6mm, thickness of front panel max. 45mm
Weight ..... approx. 400 g

Pin configuration X10
(6-pole Combicon)

Pin 1 ..... +24VDC (input)
Pin 2 ..... 0V (input)
Pin 3 ..... +24VDC (connected internly with pin 1, as output only usable for max. 3 amp.)
Pin 4 ..... 0V (connected internly with pin 2, as output only usable for max. 3 amp.)
Pin 5 ..... RS485 + (optional)
Pin 6 ..... RS485 - (optional)

Pin configuration X90 / X91
(LWL - connection)

X90 ..... LWL output
X91 ..... LWL input

Environmental data

Operating temperature ..... 0°-55°C (32° to 131°F)
Protection class ..... IP 43 (DIN 40 050)

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Functional description

After putting on the voltage supply, the FOD-10 makes a self-test. While doing so, all display digits are numbered from 0 to 9. If an additional option is equiped, the LED-row above the display is also tested. Subsequently is tested whether a connection to the LWL-ring exists. If not, the display indicates the message ´ **Fo Err** ´. As soon as LWL-data is received, it is indicated.

Display format:

The data transfer occurs in 24 bit two's complement. As the display size is ± 6 digits, the valid display range is –999999 = F0BDC1H to +999999 = 0F423FH. Higher values cause an overflow. In this case all digits indicate the " – " character.

Decimal points:

In addition, the decimal points of the display can be activated in the most significant byte. A placed bit in this byte turns on the corresponding decimal point.
If it's not possible to transfer an eventually necessary decimal point by telegram, a fixed decimal point may also be set. To this end, the backplate of the module must be opened. Right beside the LWL-connectors is a bay, into which combinations can be soldered.

Dimensional drawing