

Product Information

DMS Bridge Panelmeter DMS9648



- Weight-force-pressure-torque with DMS bridges
- 1- or 2-way action, pressure or traction programmable
- Bridge sensitivity programmable
- Max. 8 parameter sets programmable
- Max. 4 alarm outputs, relay or transistor

Characteristics

The DMS Bridge Panelmeter DMS9648 is designed for measuring forces, pressure and torques with DMS bridges. The device offers a programmable bridge supply 5/10 V DC; max. 50 mA output current. Measuring errors due to line resistance can be compensated by using a sense line.

Technical data

Power supply

Supply voltage : 230 V AC $\pm 10\%$; 115 V AC $\pm 10\%$;
 24 V AC $\pm 10\%$ or 24 V DC $\pm 15\%$

Power consumption : max. 3.5 VA, with analog output 5 VA

Operating

temperature : -10..+55 °C

CE-conformity : EN 61326-1:2013; EN 60664-1:2007

Input

Bridge supply : 5 V DC or 10 V DC ; programmable;
 max. 50 mA

Bridge resistance : at 5 V min. 100 Ω ; at 10 V min. 200 Ω

Bridge sensitivity : 0.900..6.600 mV/V programmable

Sense line : compensated line resistance
 of max. 10 Ω

Accuracy : < 0.1 % ± 2 Digit

Display : LED red, 14,2 mm

Indicating range : $\pm 9999(0)$ Digit

Additional display : LED 2 digit red, 7 mm
 (parameter - and status indicator)

Output

Relay SPDT : < 250 V AC < 250 VA < 2 A,
 < 300 V DC < 50 W < 2 A

Transistor : max. 35 V AC/DC, 100 mA,
 with short-circuit-proof

Analog output : 0/4..20 mA burden $\leq 500 \Omega$;
 0/2..10 V burden > 500 Ω , isolated
 output changes automatically

- Accuracy : 0.1 %; TK 0.01 %/K

Case : panel mounting DIN 96x48,
 material PA6-GF; UL94V-0

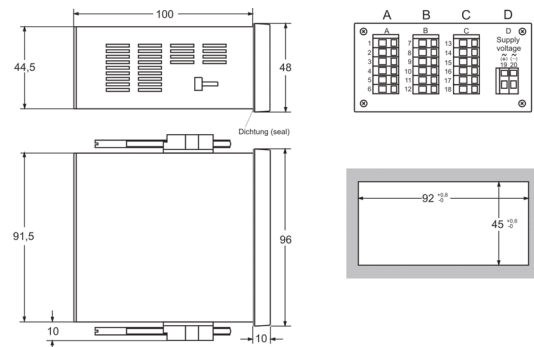
Dimensions : front 96x48 mm, mounting depth 100 mm

Weight : max. 390 g

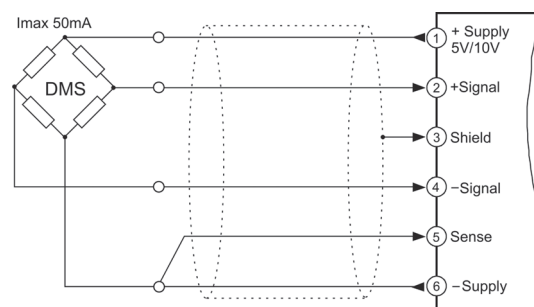
Connection : clamp terminals, 0.08..1.5 mm²
 AWG28..AWG14

: front IP65, terminals IP20 acc. to BGV A3

Dimensions



Connection diagram



Ordering code

DMS9648 - - - - - - -

1. Terminal strip A	
1	input DMS bridge, 1 parameter set
2	input DMS bridge, 8 parameter sets
2. Terminal strip B	
00	not installed
2R	2 relay outputs
2T	2 electronic outputs
3. Terminal strip C	
00	not installed
2R	2 relay outputs
2T	2 electronic outputs
AO	analog output 0/4..20 mA, 0/2..10 V
4. Terminal strip D; supply voltage	
0	230 V AC $\pm 10\%$ 50-60Hz
1	115 V AC $\pm 10\%$ 50-60Hz
4	24 V AC $\pm 10\%$ 50-60Hz
5	24 V DC $\pm 15\%$
5. Options	
00	without option
01	min- and max- peak hold
07	display brightness programmable
08	analog output separately and independent from the indicating range programmable (only DMS9648-1)
6. Unit (appears in the unit field)	
7. Additional text placed above the display (3x90 mm HxW)	

Connection diagram for terminal strips B-D see page Fehler:
 Referenz nicht gefunden