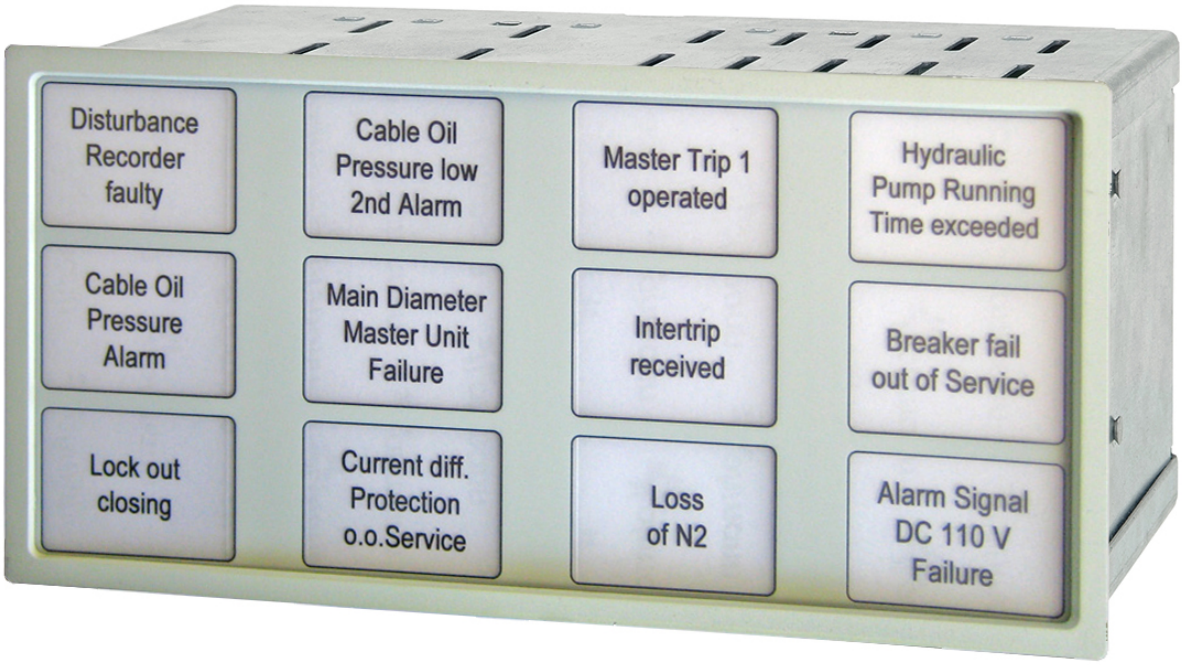

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Features

- **Display via LED Backlights for 6, 12 or 18 messages**
- **Easy to replace alarm-text on printable transparency stripes**
- **3 different housing options**
- **4 signal voltages in the range of 24 V DC up to 230 V AC are possible.**
- **As standard, you can choose from the colour white, orange, green or red**
- **On request, mixed equipping with the colours white, orange, green, red and blue are possible.**
- **No separate power supply is required. The displays are feed by their signals.**
- **Plugs with spring-cage connector**

Application

The ME 3011L Display Panel module is for signal display, which are provided by external Alarm Annunciators.

Important Safety Information!

The device description must be read and understood prior to any installation or operation. Installation, wiring, commissioning and maintenance of the *Display* module should only be carried by qualified personnel, authorized by the plant owner and under strict compliance with the relevant standards and safety regulations. Any installation works should only be carried with the system disconnected from the mains supply. Please don't hesitate to contact us if you have questions or need any further information.

Note to this Guide

Depending on the range of hardware-configuration, there is an amount of different systems. This document only describes a few of the possibilities.

Further Information

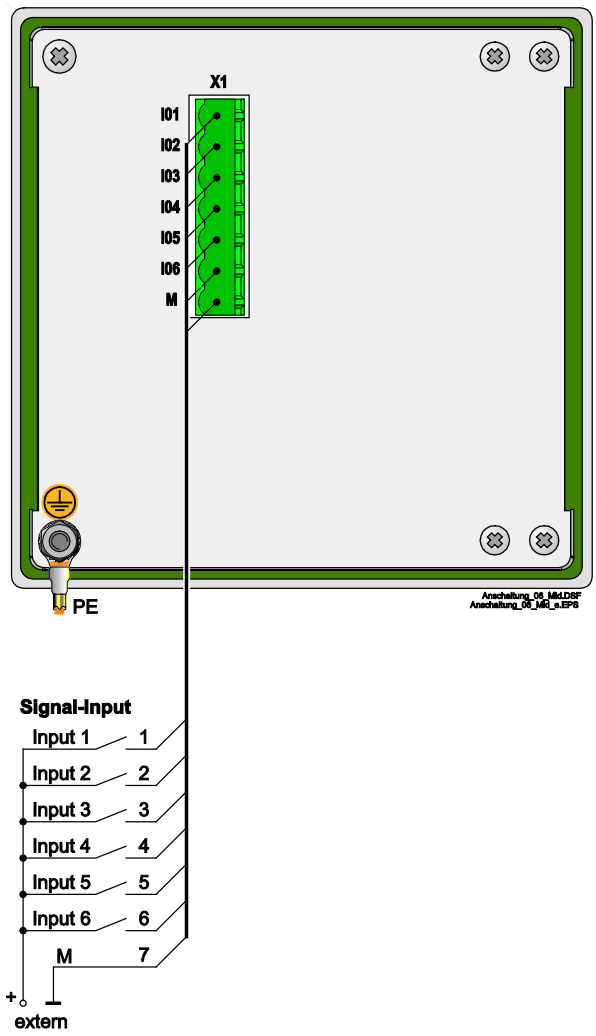
Beside this ***Quick Reference Guide***, there are more ***System Manuals*** (available from our web space www.mauell.bilfinger.com).

CE The product described in this brochure is intended for industrial use and meets the requirements laid down by the EU directive 2004/108/EC.

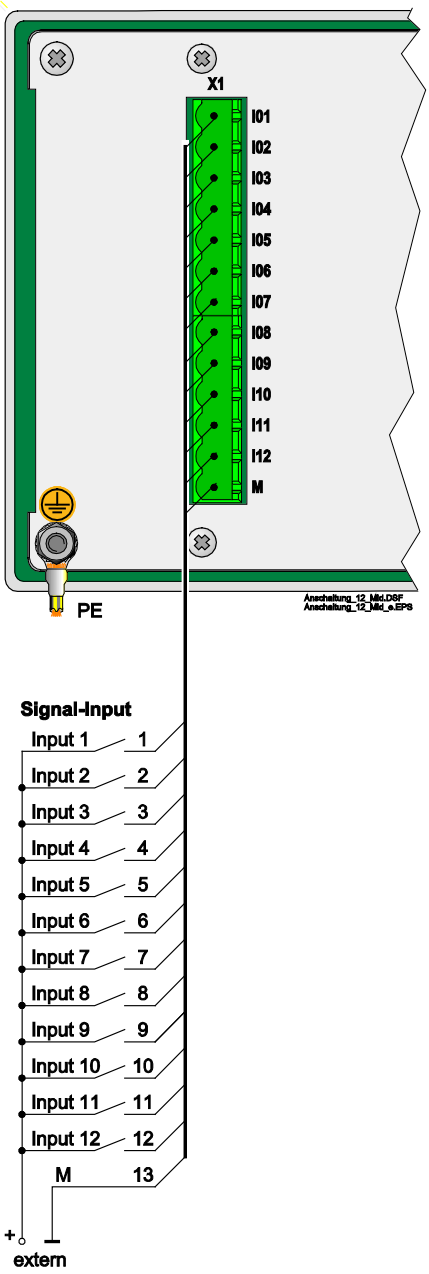
Plan of Terminal Connections

Clamp	Pin	Title	Meaning
X1	1-12 13	I1-I12 M	Alarm Inputs 1-12 common root (GND)
X2	1-6 7	I13-I18 M	Alarm Inputs 13-18 common root (GND)
	⏚	PE	Protective Earth. Have to be connected with low-resistance!

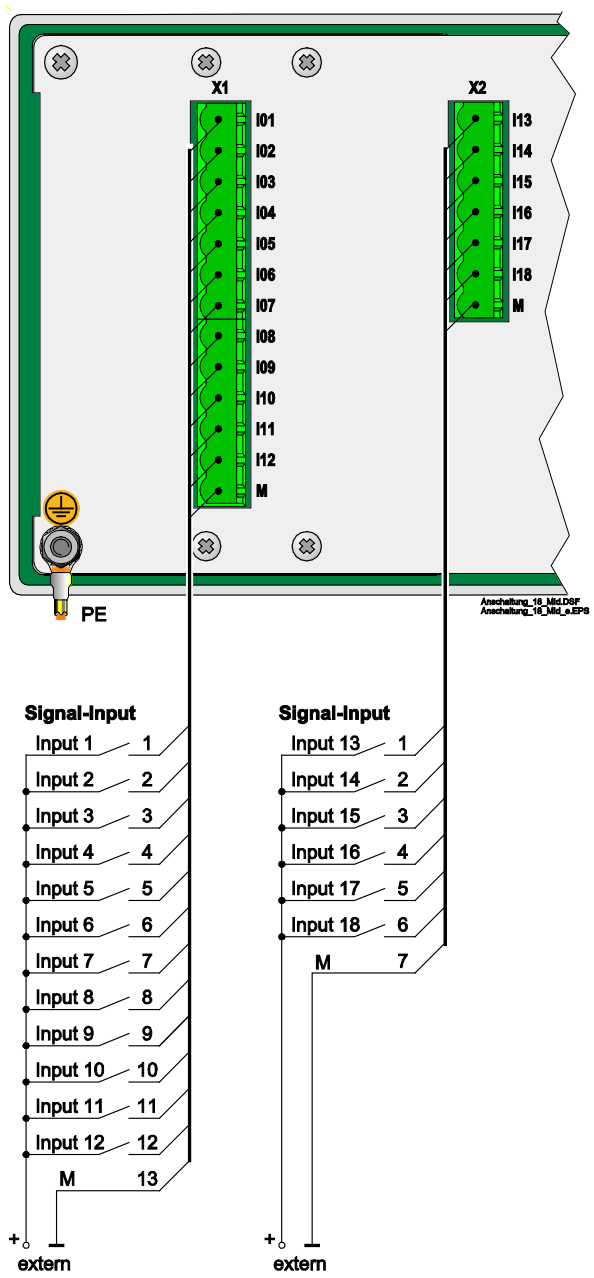
Wiring example – 6 Alarms



Wiring example – 12 Alarms



Wiring example – 18 Alarms



Technical Data

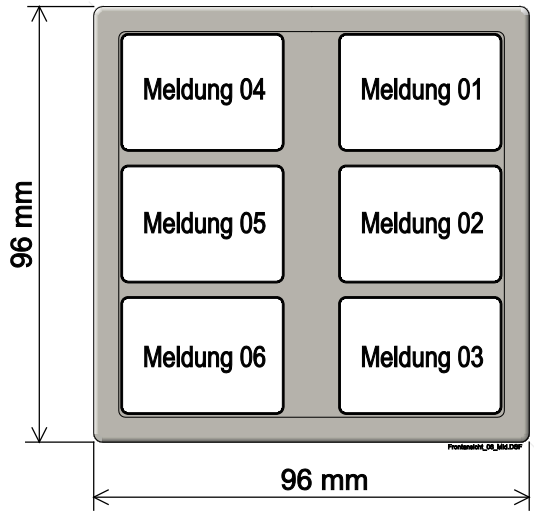
Displays: 6 up to 18 backlights

The power adds up to the count of backlights.
Whereby:
White backlights will require the least power,
Yellow backlights will require the most power.

Voltage	*white*	*up to*	*yellow*	*Tolerance*
24 V DC	7.5 mA	*up to*	14.5 mA	±20%
60 V DC	10.5 mA	*up to*	20.0 mA	±20%
110-220 V DC	3.0 mA	*up to*	6.0 mA	+10/–20%
110-230 V AC/DC	6.0 mA	*up to*	12.0 mA	+10/–20%

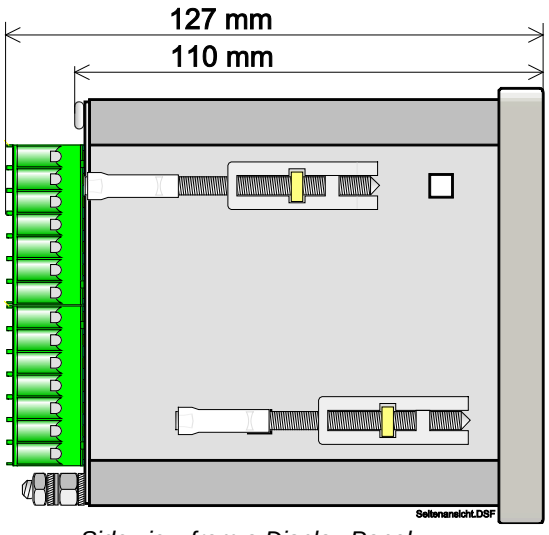
Dimension Drawing

Front View



Front view with 6 displays

Side View



Side view from a Display Panel

International Standards

Ambient Conditions

Storage temperature: –20 to +80 °C
Operating temperature 0 to +55 °C
Humidity class: 0 to 95 %
without moisture condensation
Protection class Front: IP 41
Housing: IP 30

Electromagnetic Compatibility (EMC)

Electromagnetic Immunity

DIN EN		
61000-4-2	ESD; contact discharge	4 kV
	air discharge	8 kV
61000-4-3	EM-HF-field;	10 V/m
61000-4-4	Burst	
	Signal-Inputs:	1 kV
	Power Supply:	2 kV
61000-4-5	Surge	
	Signal-Inputs sym.:	1 kV
	Power Supply sym.:	1 kV
	Power Supply asym.:	2 kV
61000-4-6	HF inflow:	10 V
61000-4-8	50 Hz magnetic fields	
	continuous field:	30 A/m

Electromagnetic Emission

DIN EN 55011 Radio noise emission Group 1, Class A

Electric Safety

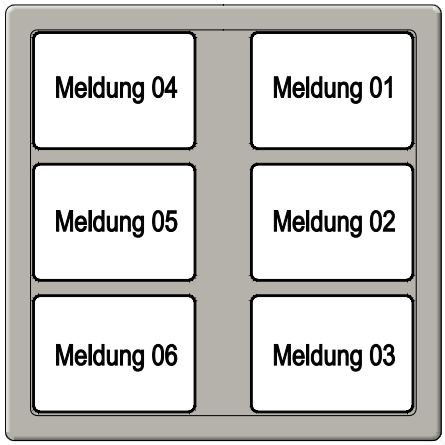
DIN EN 50178 Quality requirements
IEC 60255-5 Isolation strength
Signal-Inputs: Class 3
Power Supply: Class 2

Connection Technology

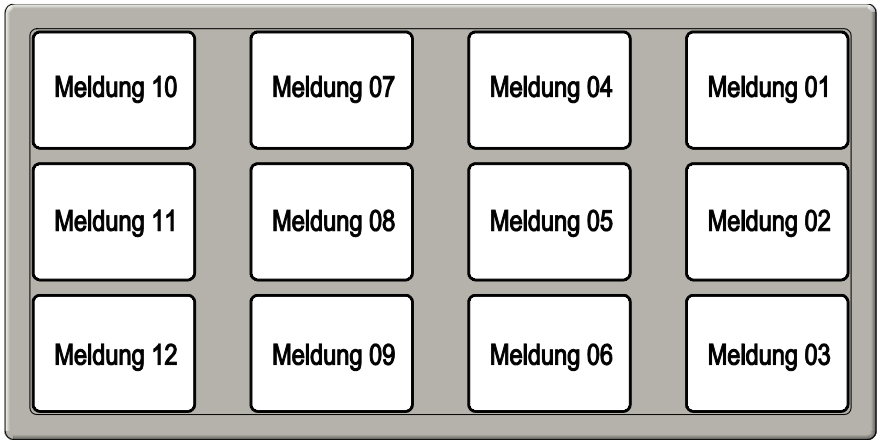
Phoenix®-plugs: COMBICON FKC 2,5
Maximum conductor cross section:
one-strand 0.20 to 2.5 mm²
fine-strand 0.20 to 2.5 mm²
fine-strand 0.25 to 2.5 mm² with DIN 46 228 end splice

Possible variants

The smallest module provides 6 displays. But there are also modules with 12 and 18 displays available.



Panel with 6 displays

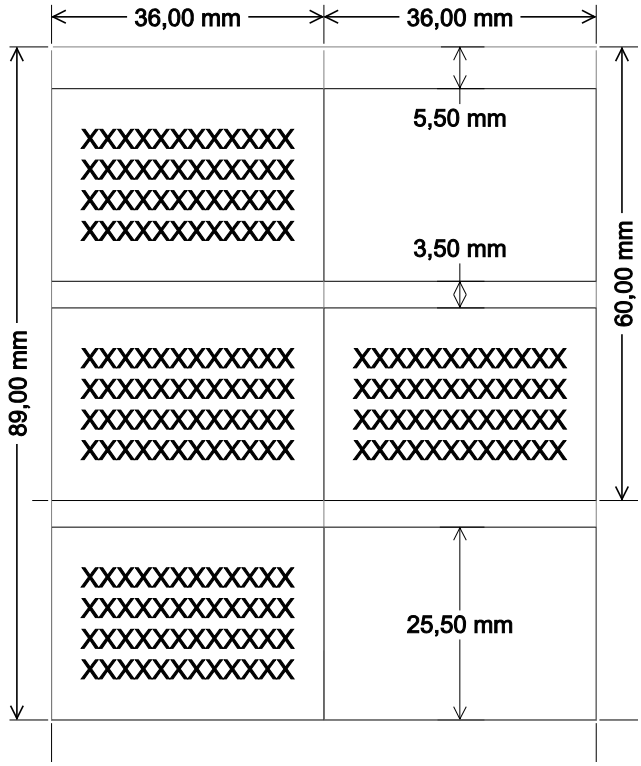


Panel with 12 displays

Panel with 18 displays

Labeling of the Messages

The messages are labeled with transparencies.



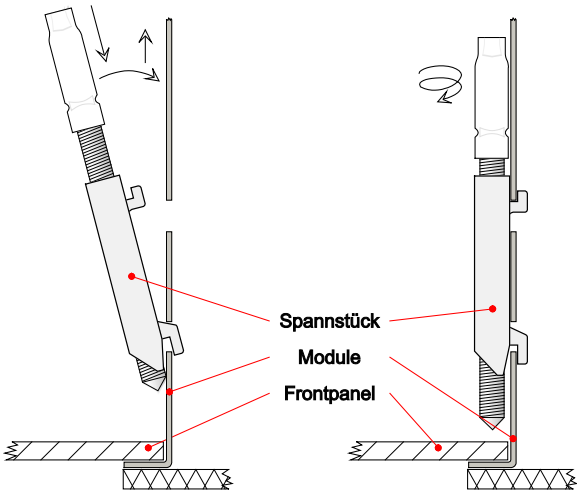
The transparency should not be thicker than 1/10 mm. For example: AVERY Zweckform Inkjet Transparency 2502
You will find a corresponding PDF form under 3011 on our website http://www.mauell.bilfinger.com.

Colors of the Backlight

The color of the backlights has to be configured on order. You can choose from the colors white, red, orange or green.
For variable colors configuration you can also select blue colored backlight.

Panel Mounting

The Digital Alarm Annunciator is mounted with



spannstücke in the cut-out of the front-panel.

Cut-out size for panel mounting (WxH):

6	Alarms	91 x 91 mm
12	Alarms	187 x 91 mm
18	Alarms	283 x 91 mm

The installation depth is deeper than 130 mm.

Spacing of the modules

During the assembly of the modules, you have to ensure that the minimum upwards and downwards spacing is more than 50 mm.

Spare Parts

81-06-006 Spannstück (panel clamp)

POWER SYSTEMS

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