



Panel indicator with stepper motor technology

Datasheet

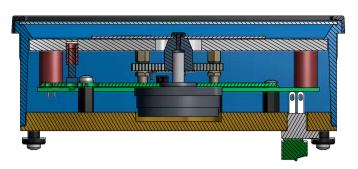


Description

The new developed stepper panel indicator is an extension to the analogue panel indicator range of Mors Smitt. This new indicator based on stepper motor technology ensures a solid and very accurate,<0,5%, indication of any requested signal.

The stepper panel indicator is self calibrating at each starting up cycle, during this time the red LED indicates this process. An error contact is opened once any error occurs. If the indicator looses its power the pointer will go to a clearly visible error position and the error contact will open.

The scale can be configured to individual requirements. Additional signaling LED's in the corners can be added upon request.



Features

- High accuracy through stepper technology
- Multiple input signals
- Free configurable scale design
- Automatic error position pointer when absence of power

Benefits

- Proven reliable
- High precision stepper motor 0.1° degrees
- Solid technology making the pointer frame better resistance against shock and vibration
- Self calibrating every start up phase

Railway compliancy

• EN50155



Panel indicator with stepper motor technology Technical specifications

General

Power supply
Input signal
Accuracy
Suitable for 24,36,48,60,72,84,96,110V DC
Current: 0..20mA, 4..20mA, 20...0...20mA
Accuracy of the motor is 0,1° degrees
Accuracy of the total panel indicator is <0,5%

In initialization and error mode
In initialization mode or process error
- The position of the pointer will be located by the processor
- The error contact will open
- The error LED will light up
In absence of power
- The pointer will go to error position
- The error contact will open

Characteristics

Housing	144x144 mm. housing 96 x 96 mm. housing (without corner LED's) 136 ø mm. round housing (without corner LED's)
Protection	Front IP54 Rear IP50 Terminals IP20
Connections	8 connections: 2 power 2 input 2 illumination 2 error contacts 8 optional connections for signalling LED's in the corners.
Pointer design	Pointer made by rotating plastic disc Printed black with white or yellow pointer
Scale design	Scale design possible over 270° Black scale ground Text, lines, figures in white, yellow, green and/or red. Scale made from plastic Specific white scale grounds possible
Illumination	White illumination Through-scale illumination. Illumination supply possible for 24, 36, 48, 60, 72, 84, 96, 110V DC (Isolated illumination circuit) Illumination dimming possible through voltage adjustment & PWM
Compliant to standards	EN 50155



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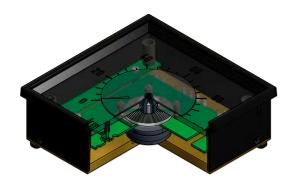


Additional options

Illumination	Any other colour illumination
Other input	Other analogue signals are on request e.g.: - Current: min. 0-1mA, max. 0-100mA, - Voltage: min, 0-1V, max. 0-50V
Signalling LED's	1, 2, 3, or 4 signalling LED's Possible for 24, 36, 48, 60, 72, 84, 96, 110V DC (Isolated circuit for each LED)

Future developements

Pointer design	Pointer or illuminated pointer possible
Scale design	Any colour scale possible
Input signal	Digial inputs possible
General	Counter and digital display











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