

Mounting instruction for MK25 Reed Sensors

Manufacturer: StandexMeder Electronics GmbH, Robert-Bosch-Straße 4, 78224 Singen, Germany

Scope

The MK25 Reed Sensors with integral cable, are used to switch an electrical load. The switch is actuated by the influence of a permanent magnet, mounted in the push-button.

The Reed Sensors have been built according to the guidelines of Ex mb II T6 and Ex tD A21 IP65 T85 °C and have been certified according to accreditation KEMA 05ATEX1206 X and IECEx KEM09.0005 X.

Handling and other advices

When mounting the sensor attention has to be paid that the sensors are treated professional with appropriate attention; especially shock exposures have to be avoided. The sensors may be attached to fitting panels from 1mm to 4mm thickness. Thereby the drilling template for mounting, as shown on the sensor datasheets, has to be taken into consideration. The sensor has to be mounted that way he is protected from mechanical stress as well as direct solar irradiation.

When mounting several MK25 next to each other, a minimum spacing of 42mm has to be taken into consideration. The cable-exit is adjustable in all directions and can thus be customized for the respective application. The connecting cables of the sensor either have to be outside the explosive area or – if within - have to be connected with an appropriate connection housing which complies with the demanded Ex-protection-class.

During mounting the push button is assembled to the cut out and the sensor housing is screwed onto the back. Starting from a fitting panel thickness of 2mm an optional rubber seal (quod vide DS 4003003154) may be used. A key protection membrane 4003007055 is also available as accessory. That membrane is recommended in case the sensor is exposed to climatic influences. The electrical circuit to which the Reed Sensor is connected must be protected with a suitably rated fuse with a breaking capacity in accordance with the fault current of the circuit.

Limit values

The electrical and physical limit values can be found on the individual datasheets and may never, not even for a short period of time, be exceeded.

Essential Health and Safety Requirements

Covered by the standards listed at declaration of conformity.

Marking:

Manufacture:	StandexMeder Electronics GmbH, 78224 Singen/Htwl., Germany
Type, e.g.:	MK25-1A75-5000W
Switching Voltage:	max. 230VDC*
Switching Current:	max. 0,5A*
Switching Capacity:	max. 10VA/W
CE:	CE 0344
Guideline:	< EX > 2 GD
Ambient Temperature:	-40°C ... +60°C
Certificate:	KEMA 05ATEX1206 X IECEx KEM09.0005 X
Production date:	according to EN 60062 / 2digit (Year / Month)
*for Contact 46:	max. 200VDC max. 0,5A
**for Contact 90:	max. 175VDC max. 0,2A

Type of protection:



II 2 G Ex mb II T6
Ex tD A21 IP65 T85°C