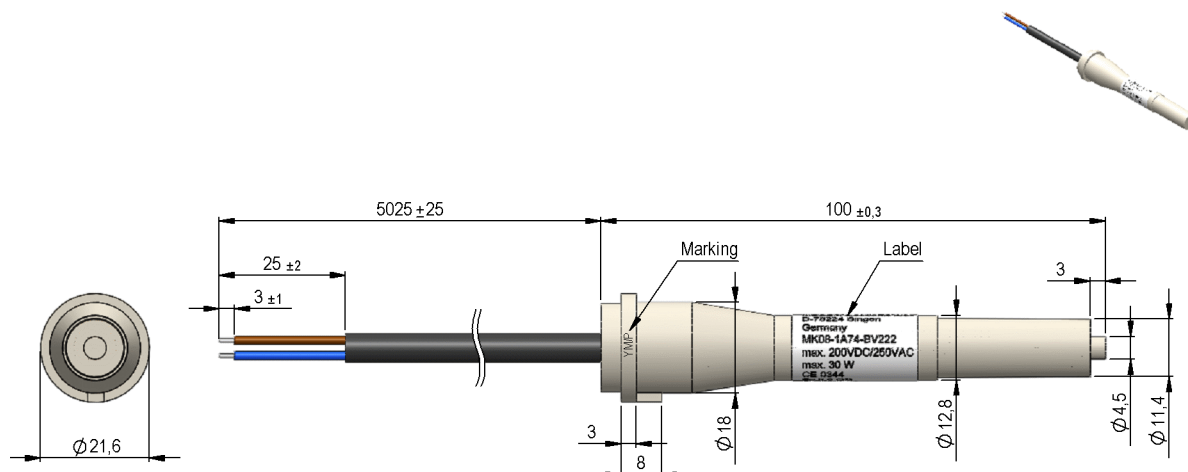


**Dimensions mm[inch]**  
tolerances acc. to DIN ISO 2768-m  
Toleranzen gem. DIN ISO 2768-m

**Isometric**  
Scale 1:5  
Maßstab 1:5



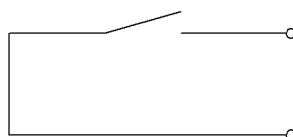
**Cable**

round cable H05RN-F 2x0.75 mm<sup>2</sup>, black  
colour of wires: brown and blue  
Rundkabel H05RN-F 2x0.75 mm<sup>2</sup>, schwarz  
Aderfarben: braun und blau  
Kabelwerke Reinshagen (sw 9005 ID-Nr. 190343)

**Terminals/Connector**

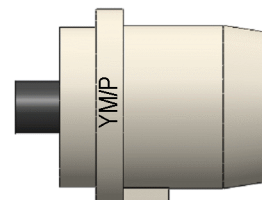
ends tinned  
Enden verzinkt

**Schematic**



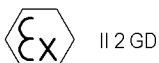
**Marking**

according to EN60062/factory code  
gem. EN60062/Fertigungsstätte



**Label**

MEDER electronic AG  
78224 Singen  
Germany  
MK08-1A74-BV222  
max. 200VDC/250VAC  
max. 30 W



Ex mb II T6  
Ex tD A21 IP65 T85°C  
KEMA 00ATEX 1112 X  
IECEx KEM09.0006X



*Products for tomorrow...*

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| Email: salesusa@meder.com

**2208174222**

Asia: +852 / 2955 1682

| Email: salesasia@meder.com

Item:

**MK08-1A74-BV222**

| Magnetic properties | Conditions | Min    | Typ | Max | Unit |
|---------------------|------------|--------|-----|-----|------|
| Pull-In             | at 20 °C   | 87     |     | 148 | AT   |
| Test equipment      |            | KMS-18 |     |     |      |

| Contact data 74            | Conditions                                                        | Min   | Typ | Max | Unit |
|----------------------------|-------------------------------------------------------------------|-------|-----|-----|------|
| Contact rating (>25 AT)    | Any DC combination of V & A not to exceed their individual max.'s |       |     | 30  | W    |
| Switching voltage          | DC                                                                |       |     | 200 | VDC  |
| Switching voltage          | Peak AC                                                           |       |     | 250 | VAC  |
| Switching current          | DC or Peak AC                                                     |       |     | 1   | A    |
| Carry current (>25 AT)     | DC or Peak AC                                                     |       |     | 2,5 | A    |
| Contact resistance static  | Measured with 40% overdrive<br>Start Value                        |       |     | 120 | mOhm |
| Insulation resistance      | RH <45 %, 100 V test voltage                                      | 1.000 |     |     | GOhm |
| Breakdown voltage (>25 AT) | according to IEC 255-5                                            | 400   |     |     | VDC  |
| Operate time incl. bounce  | measured with 40% overdrive                                       |       |     | 0,5 | ms   |
| Release time               | measured with no coil excitation                                  |       |     | 0,1 | ms   |
| Capacity                   | @ 10 kHz across open switch                                       |       | 0,2 |     | pF   |

| Special Product Data | Conditions                  | Min                                                          | Typ | Max | Unit |
|----------------------|-----------------------------|--------------------------------------------------------------|-----|-----|------|
| Sensor-resistance    | measured with 40% overdrive |                                                              |     | 400 | mOhm |
| Housing material     |                             | Makrolon 2805 grey, Bayer AG D-51368 Leverkusen,             |     |     |      |
| Housing material     |                             | Polycarbonat                                                 |     |     |      |
| Sealing compound     |                             | 1. Silikon RTV627 INDEG GmbH Emil-Kömmerling-Str. 5,         |     |     |      |
| Sealing compound     |                             | D-66954 Pirmasens                                            |     |     |      |
| Sealing compound     |                             | Colour: dark grey; useful temperature range: -60 to 204 °C   |     |     |      |
| Sealing compound     |                             | Mixing: RTV627A base component and                           |     |     |      |
| Sealing compound     |                             | RTV627B curing agent in 1:1 ratio by weight or vol.          |     |     |      |
| Sealing compound     |                             | Operate temperature: 21 °C                                   |     |     |      |
| Sealing compound     |                             | 2. Polyurethan PU570 WEVO Chemie GmbH,                       |     |     |      |
| Sealing compound     |                             | Mergenthaler Str. 13, D-73760 Ostfildern-Kemnat              |     |     |      |
| Sealing compound     |                             | Colour: dark grey, operate temperature -40 to 130 °C         |     |     |      |
| Sealing compound     |                             | Quota of the filling substances: 100 parts of vol. PU570 and |     |     |      |
| Sealing compound     |                             | 26 parts of vol. Harder 300, operating temperature 21 °C     |     |     |      |

| Environmental data    | Conditions                         | Min | Typ | Max | Unit |
|-----------------------|------------------------------------|-----|-----|-----|------|
| Shock                 | 1/2 sine, duration 11ms, in 3 axis |     |     | 50  | g    |
| Vibration             | from 10 - 2000 Hz                  |     |     | 10  | g    |
| Operating temperature |                                    | -40 |     | 60  | °C   |
| Storage temperature   |                                    | -40 |     | 60  | °C   |

| Cable specification | Conditions | Min                                                  | Typ | Max | Unit |
|---------------------|------------|------------------------------------------------------|-----|-----|------|
| Cable type          |            | oil resistant round cable H05RN-F 2x0,75 mm², black, |     |     |      |
| Cable type          |            | Colour of wires: brown and blue                      |     |     |      |
| Cable type          |            | ends approx. 3 mm tinned                             |     |     |      |
| Cable type          |            | Kabelwerke Reinshagen sw 9005 ID-Nr. 190343          |     |     |      |

Modifications in the sense of technical progress are reserved

Designed at: 07.07.11 Designed by: WKOVACS

Approval at: 07.07.11 Approval by: DKUECHLER

Last Change at: Last Change by:

Approval at: Approval by:

Version: 06