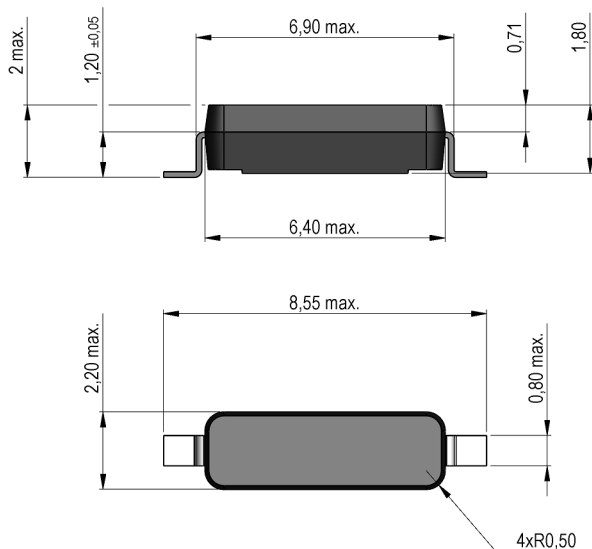


## Preliminary Datasheet

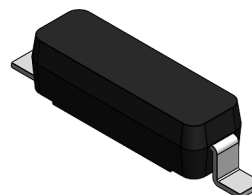
### Dimensions mm[inch]

tolerances according to DIN ISO 2768-m  
Toleranzen gem. DIN ISO 2768-m

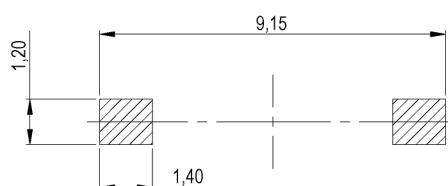


### Isometric

Scale 5:1  
Maßstab 5:1

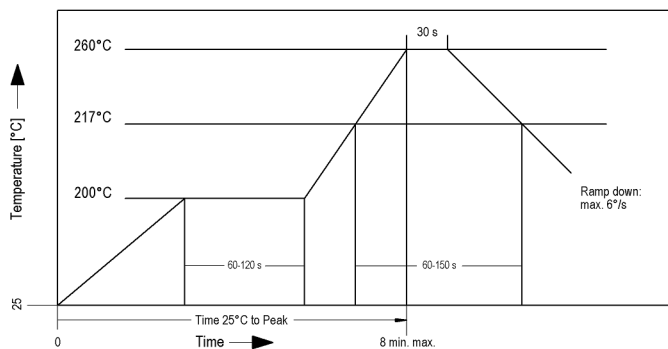


### Recommended PCB Pad Layout

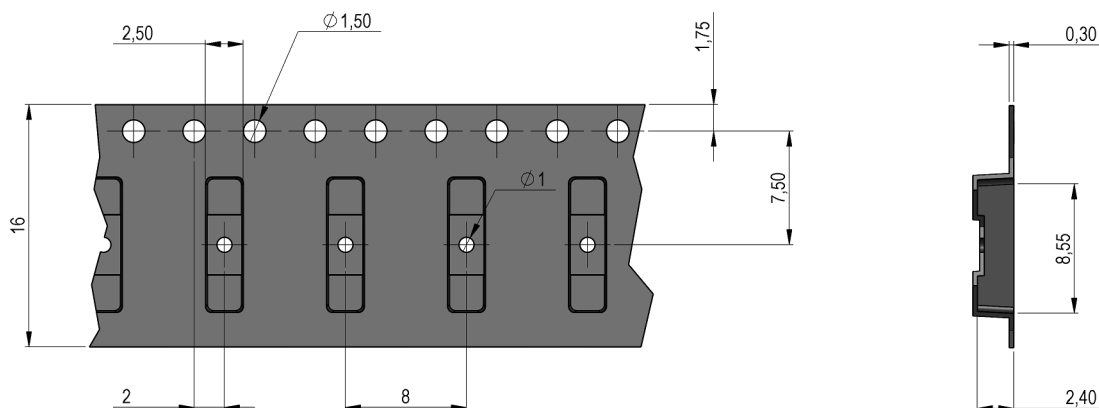


### Solder Reflow Profile

reflow soldering conditions according to JEDEC norm J-STD 020D.1



### Packaging





Europe: +49 / 7731 8399 0

| Email: info@standexmeder.com

USA: +1 / 508 295 0771

| Email: salesusa@standexmeder.com

Asia: +852 / 2955 1682

| Email: salesasia@standexmeder.com

Item No.:

**9310000021**

Item:

**MK31-B-2**

## Preliminary Datasheet

| Magnetic properties                   | Conditions                                                   | Min         | Typ | Max | Unit |
|---------------------------------------|--------------------------------------------------------------|-------------|-----|-----|------|
| Pull-In excitation (modified contact) | Reed switch modified<br>phys. conditioned tolerance +/- 1 AT | 25          |     | 115 | AT   |
| Test equipment                        | Testing 100%                                                 | KMS11+AP142 |     |     |      |

| Contact data 04                      | Conditions                                                           | Min | Typ | Max  | Unit |
|--------------------------------------|----------------------------------------------------------------------|-----|-----|------|------|
| Contact rating ( > 9 AT )            | Any DC combination of V & A<br>not to exceed their individual max.'s |     |     | 3    | W    |
| Switching voltage                    | DC or Peak AC                                                        |     |     | 30   | V    |
| Switching current ( > 9 AT )         | DC or Peak AC                                                        |     |     | 0,3  | A    |
| Carry current ( > 9 AT )             | DC or Peak AC                                                        |     |     | 0,5  | A    |
| Contact resistance static (>9AT )    | Measured with 40% overdrive<br>Start value                           |     |     | 200  | mOhm |
| Insulation resistance                | RH <45 %, 100 V test voltage                                         | 10  |     |      | GOhm |
| Breakdown voltage ( > 9 AT )         | according to EN 60255-5                                              | 100 |     |      | VDC  |
| Operate time incl. bounce ( > 9 AT ) |                                                                      |     |     | 0,2  | ms   |
| Release time                         | measured with no coil excitation                                     |     |     | 0,15 | ms   |
| Capacity                             | @ 10 kHz across open switch                                          |     | 0,1 |      | pF   |

| Special Product Data    | Conditions | Min | Typ | Max | Unit |
|-------------------------|------------|-----|-----|-----|------|
| Reach / RoHS conformity |            |     | yes |     |      |

| Environmental data          | Conditions                         | Min          | Typ | Max | Unit |
|-----------------------------|------------------------------------|--------------|-----|-----|------|
| Shock                       | 1/2 sine, duration 11ms, in 3 axis |              |     | 30  | g    |
| Vibration                   | from 10 - 2000 Hz                  |              |     | 20  | g    |
| Operating temperature       |                                    | -40          |     | 115 | °C   |
| Storage temperature         |                                    | -55          |     | 115 | °C   |
| Soldering Temperature Tsold | Reflow acc.IPC/JEDEC J-STD-020D.1  |              |     | 260 | °C   |
| Washability                 |                                    | fully sealed |     |     |      |

| General data | Conditions | Min                                        | Typ | Max | Unit |
|--------------|------------|--------------------------------------------|-----|-----|------|
| Remark       |            | Pick & place force should not exceed 25cN! |     |     |      |
| Packaging    |            | Tape & Reel per 2000 pcs. / Tray H20       |     |     |      |

Modifications in the sense of technical progress are reserved

Designed at: 20.10.16    Designed by: THAUKE

Approval at:

Approval by:

Last Change at:

Last Change by:

Approval at:

Approval by:

Version: 1