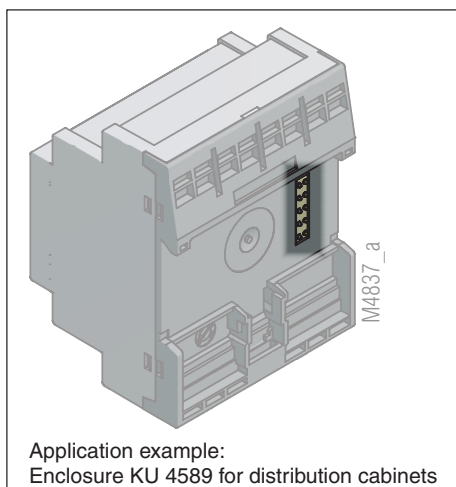


# In-Rail-Bus

Spring contact block 5-poles, reflow-solderable for horizontal pcb



Application example:  
Enclosure KU 4589 for distribution cabinets

## Approvals and Markings



\*) in preparation

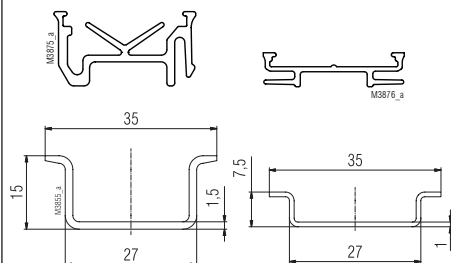
### Your Advantages

- Modular, flexible for horizontal pcbs
- Reliable and consistent supply, connection and distribution of energy, signals and data

### Features

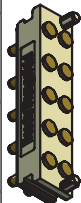
- Universal use with various enclosure types
- High current (5 A per bus pcb-rail)
- Quick and easy mounting in the DIN-rail
- Contour and layout of the bus pcb can be according to customers' requirements e.g. defined by the customer
- Designed for standard DIN-rail dimensions
- Large stand-off to DIN-rail floor allows the mounting of SMD components on the bus pcb underside
- The carrier profile is securely fixed by safety caps (left and right) on the DIN-rail

Carrier profile 15      Carrier profile 7.5



- Pcb rail "breaks" are possible, e.g. for operation of bus signals inside instruments

## Technical Data

| Type          | Contact pins |   |
|---------------|--------------|---|
| KO 4303-400   | 5            | <br>M4838_a<br>Pic.<br>10 pins |
| KO 4303-400.1 | 10           |   |
| KO 4303-400.2 | 7            |   |

Enclosure material: Polyamid PA46

| Temperature stability             |        |
|-----------------------------------|--------|
| compl. with EN 75-1/2 (1.8 MPa):  | 290 °C |
| compl. with EN 75-1/2 (0.45 MPa): | 290 °C |

### Flame retardancy

complying with UL 94: V-0

Bus rails: 5

Contact material: copper tinned, gold plated

### Max. contact resistance

Spring contact block - bus element: typically:  $\leq 20 \text{ m}\Omega$

Max. current carrying capacity: 2.5 A per spring contact pin  
5 A two contact pins per potential necessary  
25 A (max. total current)

Spring contact on bus element: at 0.7 mm working stroke 85 cN

Spring contact block fixing: by reflow solder method

Creepage current resistance: CTI 325  $\hat{=}$  insulating material III a IEC 60 664-1

Air gap:  $\geq 0.8 \text{ mm}$  IEC 60 664-1

Creepage distance:  $\geq 2.0 \text{ mm}$  IEC 60 664-1

Voltage  $U_{\text{eff}}$ : 63 V

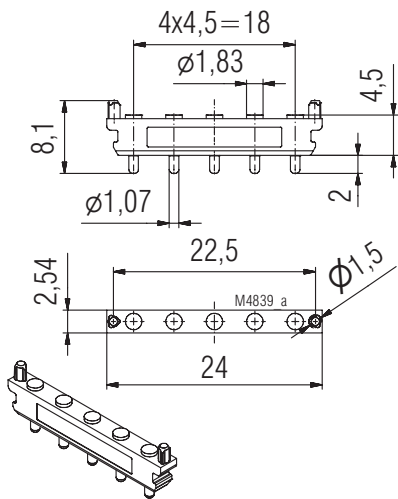
Overvoltage category: II

Rated impuls voltage  $U_{\text{Bem}}$ : 0.8 kV

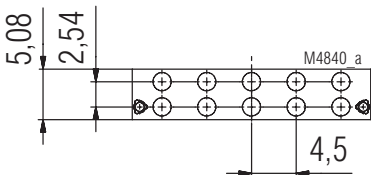
Pollution degree: 3

More informationen  
see datasheet  
In-Rail-Bus

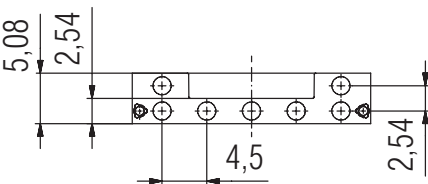
## Dimension spring contact block



Spring contact block KO 4303-400

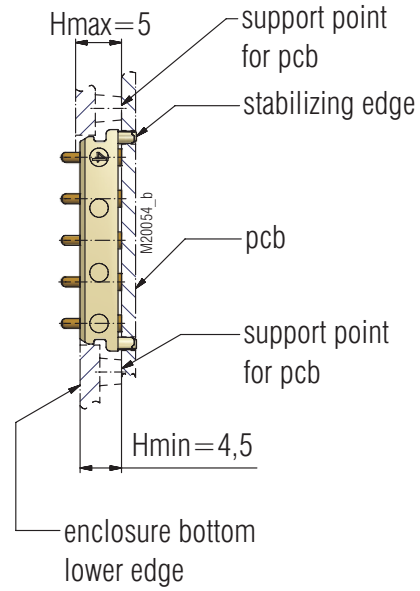


Spring contact block KO 4303-400.1



Spring contact block KO 4303-400.2

Permitted installation positions for the spring contact block in the enclosure bottom between  $H = 4,5 \dots 5,4$  mm



# Installation example

