

8453/1-03-001 Art. No. 145171



- Resistor control elements for customised equipping with numerous electric and electronic components
- Connection cross-section 0.75 to 2.5 mm<sup>2</sup>, solid/finely stranded
- Connection via screw terminals or spring clamp terminals

MY R. STAHL 8453A



R. STAHL Series 8453 control elements are primarily used for wire breakage and short-circuit monitoring of Series 8082 contact elements. They have a resistance of 1 k $\Omega$ /W or 10 k $\Omega$ /W. The devices can be equipped, individually according to customer requirements, with fuses, varistors, diodes, capacitors or other electric or electronic components.

### Technical Data

#### Explosion Protection

Application range (zones)	1, 2
IECEX gas certificate	IECEX PTB 06.0031 U
IECEX gas certificate	IECEX PTB 06.0031 U
IECEX gas explosion protection	Ex db eb IIC T6 Gb
ATEX gas certificate	PTB 01 ATEX 1067 U
ATEX gas certificate	PTB 01 ATEX 1067 U
ATEX gas explosion protection	Ex II 2 G Ex db eb IIC T6 Gb
Inmetro gas certificate	ULBR140328U
Certificates	ATEX (PTB), Brazil (ULB), IECEX (PTB)

#### Electrical Data

Rated operational power	1 W
Maximum resistance $R_{max}$	1 k $\Omega$
Minimum resistance $R_{min}$	1 k $\Omega$

#### Ambient Conditions

Ambient temperature	-60 °C ... +50 °C
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#### Mechanical Data

Version	with resistor
Degree of protection (IP)	IP20
Enclosure material	Polyamide
Silicone-free	Yes
Connection cross-section	2.5 mm <sup>2</sup>
Max. connection cross section, solid	2,5 mm <sup>2</sup>
Max. connection cross-section, finely stranded	2,5 mm <sup>2</sup>
Weight	50 g
Weight	0.11 lb

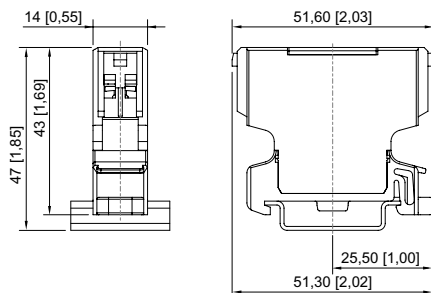
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### Mounting / Installation

Handling conductor connection

With type 8453/1 elements (contact element and disconnected terminal with screw terminals), one or two conductors can be installed under one connection terminal. In the case of solid conductors, both conductors must have the same cross-section and must be made of the same material.  
The conductors can be connected without any special prior measures.

### Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.