



- Flameproof potentiometer
- Continuous adjustment of process parameters
- Four screw terminals each with two clamping units with increased safety (Ex e)
- Large clamping range for solid or stranded conductors
- For installation in an Ex e enclosure on a toothed mounting rail

E4

MY R. STAHL 8208B



The flameproof potentiometer in the 8208 universal enclosure is used to continuously adjust process parameters in hazardous areas. This compact device is designed for installation in enclosures with increased safety (Ex e) type of protection. It is mounted on a toothed mounting rail. Four Ex e screw terminals each with two clamping units are available for the electrical connection.

We recommend using potentiometer bezel 8602C3-092 for operation.

	IEEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table					
Product Description		Control unit With potentiometer			
Figure	Maximum resistance R_{max}	Product Type	Art. No.	Weight	
	1000 Ω	8208/24-08-01k0	140711	90 g	
	4700 Ω	8208/24-08-04k7	140713	90 g	
	10000 Ω	8208/24-08-010k	140715	90 g	

Technical Data	
Explosion Protection	
IEEx gas explosion protection	Ex db eb IIC T6 Gb
ATEX gas explosion protection	Ⓔ II 2 G Ex db eb IIC T6 Gb
Certificates	ATEX (PTB), Brazil (ULB), China (CQST), IEEx (PTB), SIL (exida)
Electrical Data	
Rated operational voltage AC	500 V
Rated operational voltage DC	500 V
Rated operational voltage note	when switching instrumentation and control circuits: 8 to 30 V DC
Rated operational current note	when switching instrumentation and control circuits: 2 to 20 mA DC
Rated operational power	2 W
Ambient Conditions	
Ambient temperature	-55 °C ... +60 °C
Mechanical Data	
Enclosure material	Polyamide
Solid connection cross section	1.5 – 2.5 mm ²
Finely stranded connection cross section	1.5 – 2.5 mm ²

Technical Data

Mechanical Data

Note A fuse suitable for the rated operational current of the potentiometer (max. 3xI_b according to IEC 60127-2-1) must be connected upstream of each potentiometer to provide short-circuit protection.


Max. power

Maximum internal heat distribution

(connection with 1.5 mm² conductor cross-section and maximum 5 A)

Ambient temperature max. 40 °C	Ambient temperature max. 60 °C
T _{surface} = max. 80 °C	T _{surface} = max. 80 °C
2.0 W	1.0 W

Accessories

Figure	Description	Art. No.	Weight
Actuators			
	Designation plate: 0 to 6, 0 to 10, and 0 to 100 Seal: Standard	244640	35 g
	Designation plate: 0 to 6, 0 to 10, and 0 to 100 Seal: Silicone	244641	35 g

Other versions on request.

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

