



- Control element for individual equipping with numerous electric and electronic components
- Flameproof (Ex d) enclosure with increased safety (Ex e) screw terminals
- Connection cross-section 0.75 to 2.5 mm², solid/finely stranded
- Easy to mount on mounting rail

E4

MY R. STAHL 8453B



The Series 8453 control units from R. STAHL are components with the flameproof enclosure (Ex d) type of protection for installation in enclosures with increased safety (Ex e). They contain electronic and electric components such as resistors, diodes, voltage limiters and fuses. Their compact design makes them ideal for applications where space is critical.

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

Selection Table

Product description		Control unit Diode				
Cut-off voltage	Cut-off current	Forward voltage	Zener voltage	Product Type	Art. No.	Weight
500 V	2 A	1.15 V	–	8453C4-02-S2M	322362	34 g
Product description		Control unit Zener diode				
Cut-off voltage	Cut-off current	Forward voltage	Zener voltage	Product Type	Art. No.	Weight
–	0.2 A	1.5 V	5.6 V	8453C4-04-5V6	322363	34 g

Technical Data

Explosion Protection	
IECEX gas explosion protection	Ex db eb IIC T6 Gb
ATEX gas explosion protection	II 2 G Ex db eb IIC T6 Gb
Certificates	ATEX (BVS), Canada / USA (UL), Canada (UL), IECEX (BVS)
Notes	Product label may vary. Series devices are labelled with ATEX and IECEX.
Electrical Data	
Rated operational voltage AC	250 V
Ambient Conditions	
Ambient temperature	-60 °C ... 70 °C
Ambient temperature	-76 °F ... 158 °F
Mechanical Data	
Degree of protection (IP) (IEC 60529)	IP20
Enclosure material	Polyamide
Silicone-free	Yes
Connection cross-section, solid	0.75 ... 2.5 mm²
Connection cross-section, solid AWG	19 AWG ... 14 AWG

Technical Data

Mechanical Data

Connection cross-section, finely stranded	0.75 ... 2.5 mm ²
Connection cross-section, finely stranded AWG	19 AWG ... 14 AWG
Connection cross-section with core end sleeves, finely stranded	0.75 ... 2.5 mm ²
Connection cross-section with core end sleeves, finely stranded AWG	19 AWG ... 14 AWG

Mounting / Installation

Tightening torque	1.2 N · m
Tightening torque lbf in	10.62 lbf in

Maximum permissible power dissipation

8453 with built-in components	Maximum permissible power dissipation [W] depending on the ambient temperature											
	Ambient temperature 40 °C			Ambient temperature 50 °C			Ambient temperature 60 °C			Ambient temperature 70 °C		
	T6	T5	T4	T6	T5	T4	T6	T5	T4	T6	T5	T4
Diode installed horizontally	1.4	2.0	3.2	1.1	1.6	2.9	0.7	1.3	2.5	0.4	0.9	2.2
Diode installed vertically	1.3	1.8	2.9	1.0	1.4	2.6	0.6	1.1	2.2	0.3	0.8	1.9
Zener diode installed horizontally	1.4	2.0	3.2	1.1	1.6	2.8	0.7	1.2	2.5	0.4	0.9	2.1
Zener diode installed vertically	1.3	1.8	2.9	1.0	1.5	2.6	0.7	1.1	2.3	0.3	0.8	2.0

Group mounting: Installation conditions influence the ambient temperature

Technical Drawings – Subject to Alterations



8453/4-02 diode



8453/4-04 Zener diode

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

