



- The aluminium Ex e / Ex i terminal enclosures meet all requirements for installation areas in which explosive concentrations of gases, vapours and dusts may occur (Zones 1 and 2, as well as 21 and 22)
- MBA-Ex e / Ex i enclosures can be used in temperature classes T4 to T6.
- Can be individually equipped

MY R. STAHL MBA-Ex



Considering the heating with terminals fitted in temperature class T6, temperatures above 85 °C will not occur inside or outside. This means that combustible gases, vapours or dusts cannot be ignited. The enclosures are integrated into the equipotential bonding by means of the external earth connection. In this way, static charging and the resulting sparks are completely prevented. Ex terminal enclosures in the increased safety "e" type of protection are therefore permitted to be combined with intrinsically safe "i" electrical circuits, provided that the space available allows this. A clearance and creepage distance of at least 50 mm must be maintained between the terminals of the two electrical circuits. The additional heating of the intrinsically safe circuits can be disregarded.

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

Selection Table

Product description		Ex e terminal box			
IECEX gas explosion protection		Ex e IIC T6 / T4 Gb			
IECEX dust explosion protection		Ex tb IIIC T80 °C / T100 °C Db			
ATEX gas explosion protection		Ⓔ II 2 G Ex e IIC T6 / T4 Gb			
ATEX dust explosion protection		Ⓔ II 2 D Ex tb IIIC T80 °C / T100 °C Db			
Product Type	Dimensions (WxHxD)	Terminal rail	Max. no. of 2.5 mm ² terminals	Art. No.	Weight
MBA-Ex-e 101080	100 x 100 x 80 mm	15 x 90 mm (1x)	10		780 g
MBA-Ex-e 141490	140 x 140 x 90 mm	35 x 128 mm (1x)	17		1.34 kg
MBA-Ex-e 161080	160 x 100 x 80 mm	15 x 150 mm (1x)	22		800 g
MBA-Ex-e 181490	180 x 140 x 90 mm	35 x 170 mm (1x)	25		1.63 kg
MBA-Ex-e 201080	200 x 100 x 80 mm	15 x 190 mm (1x)	29		930 g
MBA-Ex-e 201490	200 x 140 x 90 mm	35 x 187 mm (1x)	29		1.64 kg
MBA-Ex e 121265	122 x 120 x 65 mm	35 x 110 mm (1x)	14		820 g
MBA-Ex e 121280	122 x 120 x 80 mm	35 x 110 mm (1x)	14		900 g
MBA-Ex e 121290	122 x 120 x 90 mm	35 x 110 mm (1x)	14		1.08 kg
MBA-Ex e 128055	125 x 80 x 57 mm	35 x 110 mm (1x)	14		440 g
MBA-Ex e 156030	150 x 64 x 34 mm	15 x 139 mm (1x)	19		290 g
MBA-Ex e 161690	160 x 160 x 90 mm	35 x 142 mm (1x)	20		1.6 kg
MBA-Ex e 178055	175 x 80 x 57 mm	15 x 163 mm (1x)	24		580 g
MBA-Ex e 202311	200 x 230 x 110 mm	35 x 185 mm (1x)	28		2.54 kg
MBA-Ex e 221265	220 x 120 x 65 mm	35 x 210 mm (1x)	33		1.2 kg
MBA-Ex e 221280	220 x 120 x 80 mm	35 x 210 mm (1x)	33		1.33 kg
MBA-Ex e 221290	220 x 120 x 90 mm	35 x 210 mm (1x)	33		1.47 kg
MBA-Ex e 258055	250 x 80 x 54 mm	15 x 240 mm (1x)	39		420 g
MBA-Ex e 261665	260 x 160 x 65 mm	35 x 245 mm (1x)	40		1.63 kg
MBA-Ex e 261690	260 x 160 x 90 mm	35 x 245 mm (1x)	40		1.92 kg
MBA-Ex e 282311	280 x 230 x 110 mm	35 x 265 mm (1x)	44		3.11 kg
MBA-Ex e 332311	330 x 230 x 110 mm	35 x 315 mm (1x)	53		3.43 kg
MBA-Ex e 332318	330 x 230 x 180 mm	35 x 315 mm (1x)	53		4.85 kg
MBA-Ex e 361280	360 x 122 x 80 mm	35 x 345 mm (1x)	59		2.15 kg
MBA-Ex e 361690	360 x 160 x 90 mm	35 x 345 mm (1x)	59		2.79 kg
MBA-Ex e 402311	400 x 230 x 110 mm	35 x 385 mm (1x)	67		4.1 kg
MBA-Ex e 403111	400 x 310 x 110 mm	35 x 385 mm (1x)	67		6.41 kg
MBA-Ex e 403118	400 x 310 x 180 mm	35 x 385 mm (1x)	67		7.95 kg
MBA-Ex e 561690	560 x 160 x 90 mm	35 x 545 mm (1x)	98		4.11 kg
MBA-Ex e 602311	600 x 230 x 110 mm	35 x 585 mm (1x)	105		6.9 kg
MBA-Ex e 603111	600 x 310 x 110 mm	35 x 585 mm (1x)	105		8.13 kg
MBA-Ex e 603118	600 x 310 x 180 mm	35 x 585 mm (1x)	105		10.5 kg
MBA-Ex e 708055	75 x 80 x 57 mm	15 x 64 mm (1x)	5		300 g
MBA-Ex e 906030	98 x 64 x 35 mm	15 x 88 mm (1x)	10		200 g
Product description		Ex i terminal box			
IECEX gas explosion protection		Ex e IIC T6 / T4 Gb			
IECEX dust explosion protection		Ex tb IIIC T80 °C / T100 °C Db			
ATEX gas explosion protection		Ⓔ II 2 G Ex e IIC T6 / T4 Gb			
ATEX dust explosion protection		Ⓔ II 2 D Ex tb IIIC T80 °C / T100 °C Db			
Product Type	Dimensions (WxHxD)	Terminal rail	Max. no. of 2.5 mm ² terminals	Art. No.	Weight
MBA-Ex e 606030	58 x 64 x 34 mm	15 x 48 mm (1x)	2		130 g

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MBA-Ex i 708055	75 x 80 x 57 mm	15 x 64 mm (1x)	5		300 g
MBA-Ex i 906030	98 x 64 x 35 mm	15 x 88 mm (1x)	10		200 g

Technical Data
Explosion Protection

Notes Product label may vary. Series devices are labelled with ATEX and IECEX.

Electrical Data

Notes Depending on the terminal type and the explosion-protected components used

Ambient Conditions

Ambient temperature -55 °C ... +40 °C (T6)
-55 °C ... +85 °C (T4)

Mechanical Data

Enclosure material Aluminium, (AlSi)(Cu)

Degree of protection IP (IEC 60529) IP66

Silicone-free no

Technical Data

Components

Notes

Please observe the specifications from the terminal manufacturers, e.g. the tightening torque

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

