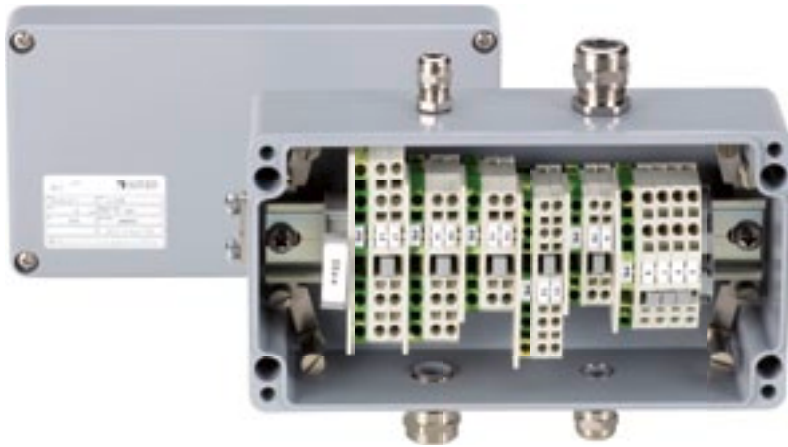


Explosion-Proofed-Enclosures MBA-Ex e

Protection class IP 66



MULTI-BOX Aluminium-Ex e junction boxes are conform to all requirements for installation fields where explosive concentrations of gases, steams and dusts can appear (zones 1 and 2 as well as 21 and 22). MBA-Ex e enclosures can be used in the temperature classes T4 up to T6.

Temperature class 6 signifies that, even in case of warming the assembly of terminals, the maximum total temperature does not exceed 85°C neither inside nor outside the enclosure. Thus, combustible gases, steams and dusts cannot be fired.

By the exterior earthing, the enclosures are included in the potential compensation. This completely avoids electrostatic charging and sparks resulting from it. If the premises permit, the Ex-junction boxes of protection type increased safety «e» can be combined with intrinsically safe «i» power circuits. The minimum clearance and creepage distance between the terminals of both power circuits must then be 50 mm. Even in this case there is no heating of the intrinsically safe power circuit.



- Test report no. : IB-10-3-248 according to ATEX for zones 1 and 2 as well as 21 and 22
- EC-Prototype Examination Certificate IBExU 10ATEX1159 according to directive 94/9/EC
- Continuous operation temperature from -55°C up to +135°C
- Protection classification IP 66 according to EN 60529
- Examinations and standards EN 60079-0:2009, EN 60079-7:2007, EN 60079-11:2007 and EN 60079-31:2009
- Lid screws made of 1.4301 which cannot be lost
- Silicone lid seal glued as o-ring
- Exterior earthing connection from 2,5 mm² up to 120 mm²
- Mounting rail TS 15/7,5 or TS 35/7,5
- Earthing connection points in the interior optionally by busbars for protective conductors, by holding angles for protective conductors or by PE-terminals
- Markings Ex II 2G Ex e II C T6 to T4 Gb or Ex II 2D Ex tb III C T 85°C Db
- Type plate on the outer side of the lid indicating the maximum voltage
- Powder-coating similar to RAL 7001

Accessories on demand:

- Certified earthing connection terminals and series terminals (according to acceptance)
- Ex-tested cable glands and sealing plugs made of steel, brass or polyamide
- Earthing busbars and earthing bolts
- Mounting plates made of galvanised steel sheet
- Wall mounting brackets made of steel
- External hinges for the lid made of aluminium

Processing on demand:

- All metric threads, armoured pipe threads, pass drillings and special threads (minimum distance between the single threads and the sealing edge of the enclosure according to the certificate of acceptance)
- Special colours according to RAL-specification
- Silk-screen printing or engraving for marking the enclosure
- Description plates made of plastic

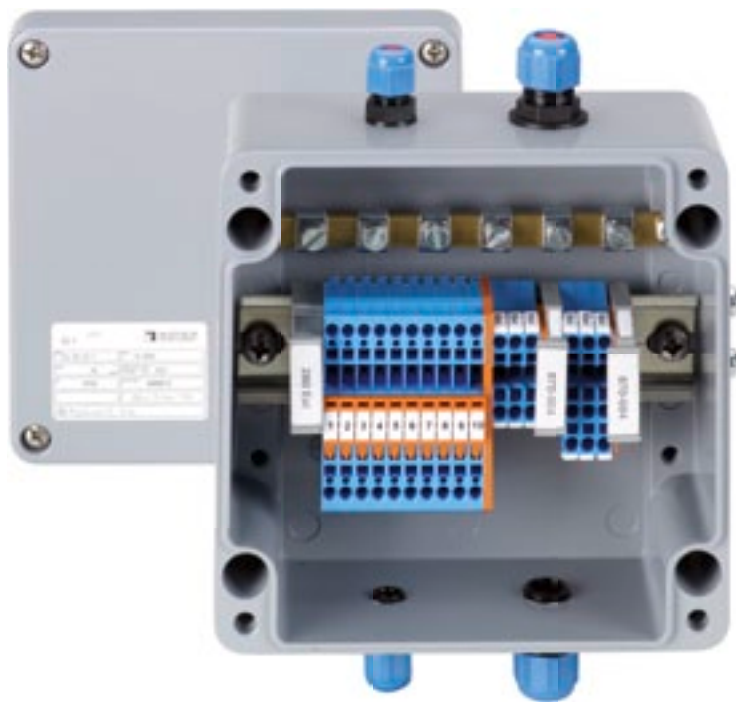
Article number	Type	L	B	H	TS	M	WL	GA
		mm	mm	mm				
3121100200	MBA-Ex e 606030	58	64	34				
3121100400	MBA-Ex e 906030	98	64	35				
3121100600	MBA-Ex e 156030	150	64	34				
3121100900	MBA-Ex e 708055	75	80	57	•	•		
3121101100	MBA-Ex e 128055	125	80	57	•	•		•
3121101300	MBA-Ex e 178055	175	80	57	•	•		•
3121101400	MBA-Ex e 258050	150	80	54	•	•		•
3121105500	MBA-Ex e 101080	100	100	80	•	•	•	•
3121101600	MBA-Ex e 121265	122	120	65	•	•	•	•
3121101800	MBA-Ex e 121280	122	120	80	•	•	•	•
3121101900	MBA-Ex e 121290	122	120	90	•	•	•	•
3121104500	MBA-Ex e 141490	140	140	90	•	•	•	•
3121102000	MBA-Ex e 221265	220	120	65	•	•	•	•
3121102200	MBA-Ex e 221280	220	120	80	•	•	•	•
3121102300	MBA-Ex e 221290	220	120	90	•	•	•	•
3121102400	MBA-Ex e 361280	360	122	80	•	•	•	•
3121102500	MBA-Ex e 161690	160	160	90	•	•	•	•
3121104000	MBA-Ex e 261665	260	160	65	•	•	•	•
3121102600	MBA-Ex e 261690	260	160	90	•	•	•	•
3121102800	MBA-Ex e 361690	360	160	90	•	•	•	•
3121102900	MBA-Ex e 561690	560	160	90	•	•	•	•
3121103000	MBA-Ex e 202311	200	230	110	•	•	•	•
3121103100	MBA-Ex e 282311	280	230	110	•	•	•	•
3121103202	MBA-Ex e 332311	330	230	110	•	•	•	•
3121103300	MBA-Ex e 332318	330	230	180	•	•	•	•
3121103400	MBA-Ex e 402311	400	230	110	•	•	•	•
3121103500	MBA-Ex e 403111	400	310	110	•	•	•	•
3121103600	MBA-Ex e 403118	400	310	180	•	•	•	•
3121103700	MBA-Ex e 602311	600	230	110	•	•	•	•
3121103800	MBA-Ex e 603111	600	310	110	•	•	•	•
3121103900	MBA-Ex e 603118	600	310	180	•	•	•	•

L = Length, **B** = Breadth, **H** = Height, **TS** = Mounting rail, **M** = Mounting plate, **WL** = Wall mounting brackets, **GA** = External hinges

Technical drawings and further information about our products can be found online at www.multi-box.com

Explosion-Proofed-Enclosures MBA-Ex i

Protection class IP 66



MULTI-BOX Aluminium-Ex i junction boxes are conform to all requirements for installation fields where explosive concentrations of gases, steams and dusts can appear (zones 1 and as well as 21 and 22). MBA-Ex i enclosures can be used in the temperature classes T4 up to T6.

The explosion protection of so called intrinsically safe enclosures «i» is based upon the low voltage and electricity connected in the enclosure (e.g. data or telephone lines).

Thanks to the limit of ignition energy, the occurrence of a spark is absolutely impossible. Even rising the temperature or heating our Ex i-junction boxes assembled with the maximum amount of series terminals cannot cause any explosion.

By the exterior earthing, the enclosures are included in the potential compensation. This completely avoids electrostatic charging and sparks resulting from it. In order to make visible an intrinsically safe power circuit when installing Ex i-enclosures, once has to choose blue or blue marked cable glands and blue terminals.



- Test report no.: IB-10-3-248 according to ATEX for zones 1 and 2 as well as 21 and 22
- EC-Prototype Examination Certificate IBExU 10ATEX1159 according to directive 94/9/EC
- Continuous operation temperature from -55°C up to +135°C
- Protection classification IP 66 according to EN 60529
- Examinations and standards EN 60079-0:2009, EN 60079-7:2007, EN 60079-11:2007 and EN 60079-31:2009
- Lid screws made of 1.4301 which cannot be lost
- Silicone lid seal glued as o-ring
- Exterior earthing connection from 2,5 mm² up to 120 mm²
- Mounting rail TS 15/7,5 or TS 35/7,5
- Earthing connection points in the interior optionally by busbars for protective conductors, by holding angles for protective conductors or by PE-terminals
- Markings Ex II 2G Ex ia II C T6 to T4 Gb or Ex II 2D Ex tb III C T 85°C Db
- Type plate on the outer side of the lid
- Powder-coating similar to RAL 7001

Accessories on demand:

- Certified earthing connection terminals and series terminals (according to acceptance)
- Ex-tested cable glands and sealing plugs made of steel, brass or polyamide
- Earthing busbars and earthing bolts
- Mounting plates made of galvanised steel sheet
- Wall mounting brackets made of steel
- External hinges for the lid made of aluminium

Processing on demand:

- All metric threads, armoured pipe threads, pass drillings and special threads (minimum distance between the single threads and the sealing edge of the enclosure according to the certificate of acceptance)
- Special colours according to RAL-specification
- Silk-screen printing or engraving for marking the enclosure
- Description plates made of plastic

Article number	Type	L	B	H	TS	M	WL	GA
		mm	mm	mm				
3131100200	MBA-Ex i 606030	58	64	34				
3131100400	MBA-Ex i 906030	98	64	35				
3131100600	MBA-Ex i 156030	150	64	34				
3131100900	MBA-Ex i 708055	75	80	57	•	•		
3131101100	MBA-Ex i 128055	125	80	57	•	•		•
3131101300	MBA-Ex i 178055	175	80	57	•	•		•
3131101400	MBA-Ex i 258050	150	80	54	•	•		•
3131105500	MBA-Ex i 101080	100	100	80	•	•	•	•
3131101600	MBA-Ex i 121265	122	120	65	•	•	•	•
3131101800	MBA-Ex i 121280	122	120	80	•	•	•	•
3131101900	MBA-Ex i 121290	122	120	90	•	•	•	•
3131104500	MBA-Ex i 141490	140	140	90	•	•	•	•
3131102000	MBA-Ex i 221265	220	120	65	•	•	•	•
3131102200	MBA-Ex i 221280	220	120	80	•	•	•	•
3131102300	MBA-Ex i 221290	220	120	90	•	•	•	•
3131102400	MBA-Ex i 361280	360	122	80	•	•	•	•
3131102500	MBA-Ex i 161690	160	160	90	•	•	•	•
3131104000	MBA-Ex i 261665	260	160	65	•	•	•	•
3131102600	MBA-Ex i 261690	260	160	90	•	•	•	•
3131102800	MBA-Ex i 361690	360	160	90	•	•	•	•
3131102900	MBA-Ex i 561690	560	160	90	•	•	•	•
3131103000	MBA-Ex i 202311	200	230	110	•	•	•	•
3131103100	MBA-Ex i 282311	280	230	110	•	•	•	•
3131103202	MBA-Ex i 332311	330	230	110	•	•	•	•
3131103300	MBA-Ex i 332318	330	230	180	•	•	•	•
3131103400	MBA-Ex i 402311	400	230	110	•	•	•	•
3131103500	MBA-Ex i 403111	400	310	110	•	•	•	•
3131103600	MBA-Ex i 403118	400	310	180	•	•	•	•
3131103700	MBA-Ex i 602311	600	230	110	•	•	•	•
3131103800	MBA-Ex i 603111	600	310	110	•	•	•	•
3131103900	MBA-Ex i 603118	600	310	180	•	•	•	•

L = Length, **B** = Breadth, **H** = Height, **TS** = Mounting rail, **M** = Mounting plate, **WL** = Wall mounting brackets, **GA** = External hinges

Technical drawings and further information about our products can be found online at www.multi-box.com