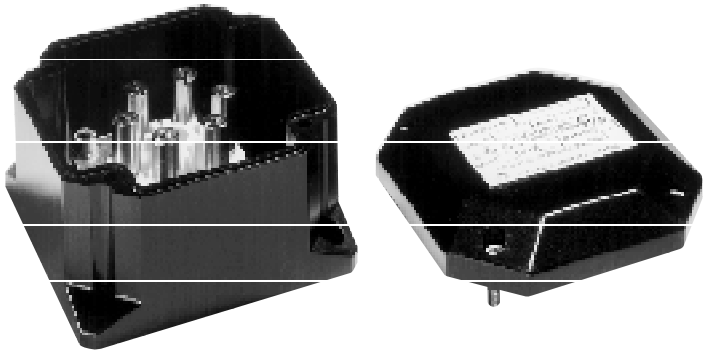


Terminal box

Features

- ATEX certification
- BASEEFA test certification
- Versions with horizontally, vertically or diagonally mounted terminal strip
- Different terminal types can be mounted
- External earth connection
- Extended ambient temperature range
- Possibility of an M 20/M 25 cable entry in the lid
- Integrated earthing pad for metal glands

Description

The OTB terminal box, both distribution box and empty enclosure, is manufactured of high impact resistance proof, glass-fibre reinforced polyester SMC & DMC providing extraordinary stability and corrosion resistance.

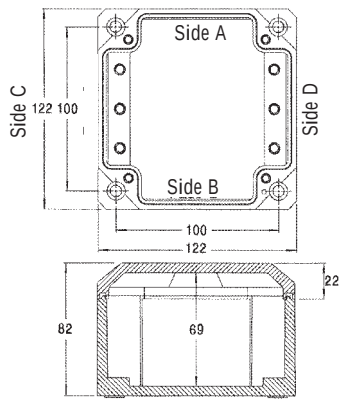
The standard enclosure consists of black, anti-static material. OTB distribution box and empty enclosure have been tested and approved by the BASEEFA authorities according to the latest European Standards. These correspond to the requirements of the EC directive 94/9/EC (ATEX).

Installation instructions
The installer must make sure that the enclosure used is suitable for the corresponding field of application. This means that the marking must correspond to the classification of the Ex area. Also must the temperature class of the distribution box meet the respective requirements.

Terminal box *Terminal box, empty enclosure*	***black*** *Type OTB-122* *Type OEB-122*
Explosion protection	
Ex protection type (according to EN 50014)	Ex II 2 GD T 85°C, EEx e II T6 increased safety BS EN 50014, BS EN 50019; 1994 BS EN 50281-1-1; 1998
Ambient temperature (special temperature range on request)	- 20 °C to + 40 °C extended ambient temperature range - 55 °C to + 65 °C
Technical data	
Material	polyester black, anti-static, glass-fibre reinforced, surface resistance <10^9 Ω flame retardant: IEC 92.1, UL94V0
Colour/coating	polyester black, anti-static
Lid screws (other models on request)	captive slotted or hexagon socket screw, high-quality stainless steel 316
Standard-seals (seals on request)	captive silicone o-ring in groove, protected against the penetration of foreign bodies, according to IP 66 (IEC 144/EN 60529) - 55 °C to + 80 °C
Mechanical resistance (according to EN 50014)	impact energy > 2 x 7 Nm
Protection class EN 60529/IEC 60529 (higher protection class on request)	IP 66
Max. power dissipation	at Tu + 40 °C, 4 W at Tu + 55 °C, 2 W at Tu + 65 °C, 1.3 W
Certification (further certifications on request)	empty enclosure: part certification BAS98ATEX3007U distribution box: conformity certification BAS98ATEX3008X
Accessories	Earthing bars OS3, XE earthing studs, ES earthing studs

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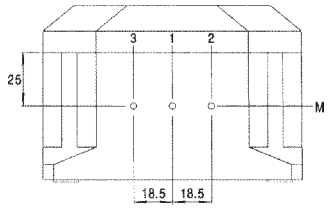
Dimensions



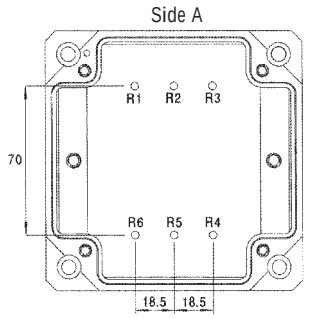
All dimensions in mm.
Fixing hole diameter 7 mm.

Entries

View on sides A+B and C+D



View on side R



Selection chart

Max. number of terminals	Number of strips	Max. current (A)	Max. voltage (V)	Max. conductor size (mm²)	Earth terminal	Max. conductor size
10 SAK 2.5	1 horizontal or diagonal	15	550	0.5 to 2.5	EK 4	0.5 to 4.0
11 SAK 2.5	1 horizontal	15			BET 2	0.5 to16.0*
12 SAK 2.5	1 diagonal	14				
8 SAK 4	1 horizontal or diagonal	21		0.5 to 4.0	EK 4	0.5 to 4.0
6 SAK 6N	1 horizontal or diagonal	26		0.5 to 6.0	EK 10	2.5 to 10.0
5 SAK 10	1 horizontal or diagonal	37		2.5 to 10.0		
BK 3 (1 x 3-pole)	n/a	21	275	0.5 to 4.0	BET 2	0.5 to 16.0*
BK 4 (1 x 4-pole)		21				
BK 6 (1 x 6-pole)		21				
BK 12 (1 x 12-pole)		20				
MK 6/6 (1 x 6-pole)		26	418	0.5 to 6.0		
BTB 4 (1 x 4-pole)	n/a	37	726	0.5 to 16.0*	BET 2	0.5 to 16.0*
BTB 6 (1 x 6-pole)						

- A maximum of 2 earthing bars type QS3 may be fitted.
- Alternative terminal types are available.

The maximum number of terminals listed above depends on the maximum conductor size and maximum current. At least one earth terminal must be connected.
The enclosure can be mounted with the terminal strip horizontally or vertically aligned or equipped with a single diagonally mounted terminal strip.

Standard entry arrangements

Thread size	Side	Max. entries per side	Position of holes	Notes
M 20	A+B	1	1M	
		2	2M, 3M	Locknuts max. 27 mm A/C
	C+D	1	1M or 2M or 3M	
		2	2M, 3M	Locknuts max. 27 mm A/C
M 25	A+B	1	1M	
	C+D	1	1M	

- Other equivalent entry sizes (such as Pg) are available.
- EEx e II nylon plugs can be fitted as required.

Special rear entry positions

Thread size	Side	Max. entries per side	Position of holes	Notes
M 20	R	2	R2, R5	Locknuts max. 27 mm A/C
		4	R1, R3, R4, R6	

- Single M 20 entry in the lid is also possible.
- Single M 25 entry in the lid is also possible.

Order no.: OTB-122