

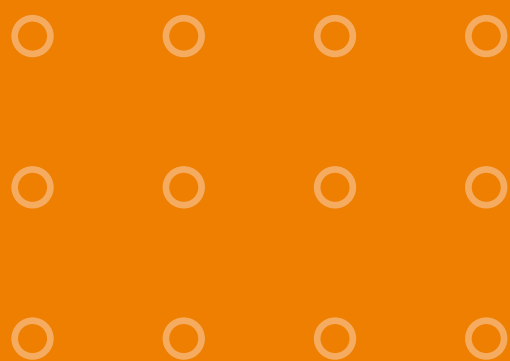
# OBO FireBox

Safety for cable connections

Cable junction boxes for maintaining electrical functional integrity according to DIN 4102 Part 12



VBS connection and fastening systems



**OBO**  
BETTERMANN

# Pre-assembled and user-friendly

## Functional integrity with a system



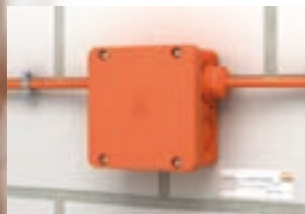
The OBO FireBox, made from Duroplast, intended for the extending or diverting of the functional integrity cable, completes the OBO functional integrity system for safety-relevant units. The tested and approved types B 100 E, B 160 E and B 250 E will fulfil your requirements reliably and safely. Everything that is needed for assembly is included in the contents of the delivery: the cable

junction boxes, four plug-in seals and the connecting unit with two anchor bolts. A unique highlight of the OBO FireBox is the fully pre-assembled connecting unit that is built to withstand high temperatures. As always, OBO has all the solutions for your needs – and all from a single source.



### 1. Pre-assembled

The housing of the OBO FireBox is made from a thermoset plastic and is equipped with a ceramic connecting unit that is built to withstand high temperatures. The connecting unit is fully pre-assembled. The green and yellow protective conductor terminal is connected directly to the mounting bracket. In this way, the need for protective covers for the metal parts becomes superfluous.



### 2. Approved for below ground

The pre-assembled anchor bolts MMS6 which are included in delivery are certified as being flame retardant and are authorised for use with concrete and various types of masonry, sand-lime brick (solid and perforated) and solid brick. The material on which it is to be mounted must have a consistency category of between C20/25 and C50/60 for concrete, and for masonry must contain a value of  $\geq 12$ . A wide range of uses are thus covered. However, if there is a different type of base material then Rawlplugs which are appropriate specifically for this situation must be used.



### 3. A complete system

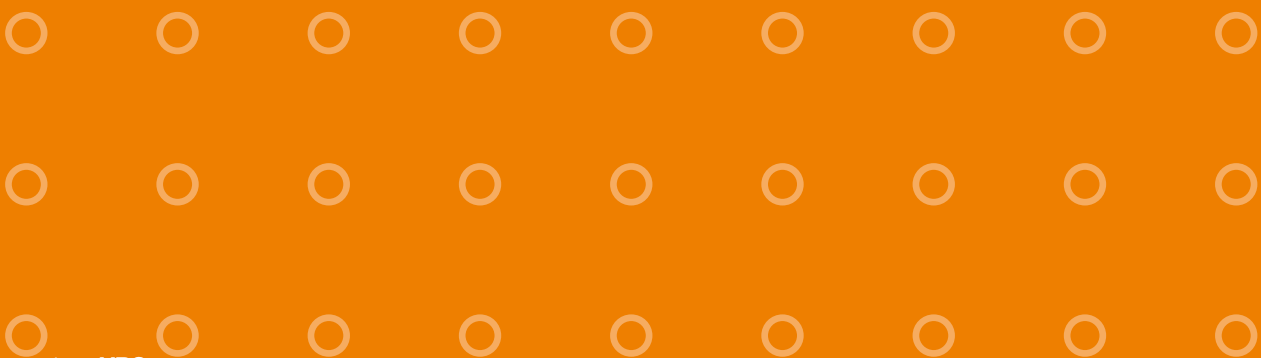
The OBO FireBox is intended for use with cable systems constructed according to DIN 4102 Part 12. This includes, of course, cables from a variety of different manufacturers as well as metal fastening systems. OBO offers a wide range of approved products for this purpose and so makes it possible to keep the whole system well rounded.

# Completely safe

No breakdown if a fire breaks out



Safety-relevant units such as emergency lighting or heat and smoke vents save lives. For this reason, they must continue to function for a defined amount of time (E30, E60, E90). The cables used for this purpose combine tested and approved laying systems with a cable system with an integrated functional integrity corresponding to DIN 4102 Part 12. Extending or diverting is now also possible using the OBO FireBox. In this way, all safety-relevant systems for the laying, connecting and fastening of functional integrity cables are available from the same source. OBO – with safety.



# Extremely simple

## The installation of the FireBox



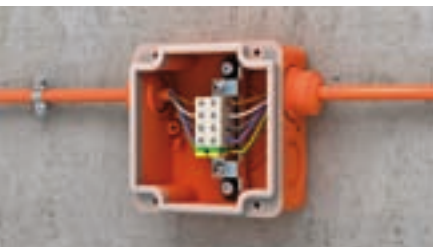
### Simply fixed

Mark, drill, screw – and without the need for Rawlplugs. That's how quickly and simply it works with the two pre-assembled anchor bolts on the connecting unit that also hold the cable junction boxes. To assemble you will need a T30 screwdriver.



### Simply installed

The openings through which the cables are to be led are very easily pushed through. The mostly rigid functional integrity cables are to be led into the sealing clamps in the box. Only the larger openings are approved for the functional integrity cables. (Dimensions of the opening: B 100 E 4 x 32 mm; B 160 E 4 x 40 mm; B 250 E 8 x 40 mm).



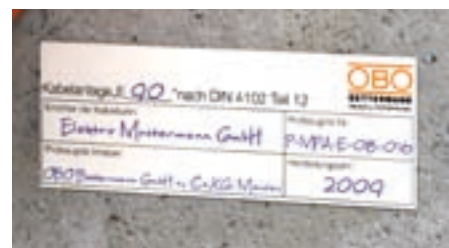
### Simply safe

The direct connection of the protective earth conductor to the green and yellow screw terminal ensures protection from electric shock in case of touch voltage from the metal parts.



### Simply fast

With just a few simple assembly steps one can extend or divert the electrical functional integrity. To finish the job it only remains to affix the filled-out identification label – and one more element of the fireproof cable system is ready and in accordance with DIN.



### The cables that belong to the system.

OBO's FireBox is approved by the Nordrhein Westfalen materials testing house in Erwitte in accordance with DIN 4102 Part 12, as an addition to cable-specific laying procedures. Combining the FireBoxes with cables from the manufacturers Dätwyler, Eupen, Leoni Studer, Nexans and Prysmian may be achieved in the functional integrity categories E30, E60 and E90 with cables of the types (N) HXH and JE-H(St)H. Details are to be found in the test certificate no. P-MPA-E-08-016. Further tests are being prepared. The current data is available on the Internet at [www.obo.de/downloads](http://www.obo.de/downloads).

## The cable junction boxes for the maintaining of functional integrity



Type	B 100 E
Measurement in mm	122 x 122 x 58.5
Material	Duroplast
Colour	Pastel Orange/RAL 2003
Included in delivery plug-in seals	4 x M32
Packaging	1
Art. no.	2002 57 1



Type	B 160 E
Measurement in mm	168 x 143 x 70.0
Material	Duroplast
Colour	Pastel Orange/RAL 2003
Included in delivery Plug-in seals	4 x M40
Packaging	1
Art. no.	2002 57 8



Type	B 250 E
Measurement in mm	243 x 168 x 82.5
Material	Duroplast
Colour	Pastel Orange/RAL 2003
Included in delivery Plug-in seals	4 x M40
Packaging	1
Art. no.	2002 58 5



Type		Packaging	Art. no.
BSFB	Extra parts set (receipt of test certificate and a self-adhesive test certificate label)	1	2002 59 9
KS-E	Test certificate label (self-adhesive functional integrity label)	1	7205 42 2

## An overview of the advantages of the FireBox

- **Connecting unit included:** pre-assembled connecting unit is included in delivery contents
- **Base material:** mounting on to various base materials is approved
- **Rawplugs-free assembly:** through approved anchor bolts MMS 6x50, Drill hole Ø 5 mm
- **Three types:** B 100 E, B 160 E, B 250 E
- **Plug-in seals included in delivery:** 4 x M32 or 4 x M40
- **Insertion openings:** 4 or 8
- **Protection type:** IP 65
- **Nominal voltage:** 660 V
- **Width:** up to 16 mm<sup>2</sup>
- **Colour:** Pastel Orange/RAL 2003
- **Halogen-free:** without chlorine, fluoride or bromine
- **Capable of withstanding high temperatures:** connecting unit made from special ceramic



Functional integrity category 30 minutes



Functional integrity category 60 minutes



Functional integrity category 90 minutes



Maximum width



Approved cable ports



Nominal voltage



Protection type



Halogen-free: without chloride, fluoride or bromine




Insertion hole size

## Tested and approved extra parts for functional integrity with single laying systems


All products presented here are made from steel.




Type	Designation	Clamping range in mm	Surface	Packaging	Art. no.
732	Cable and pipe spacing clip	5–6	GTP	100	1360 05 1
732	Cable and pipe spacing clip	7–8	GTP	100	1360 08 6
732	Cable and pipe spacing clip	9–10	GTP	100	1360 10 8
732	Cable and pipe spacing clip	10.5–12	GTP	100	1360 12 4
732	Cable and pipe spacing clip	12.5–14	GTP	100	1360 14 0
732	Cable and pipe spacing clip	15	GTP	100	1360 15 9
732	Cable and pipe spacing clip	14.5–16	GTP	100	1360 16 7
732	Cable and pipe spacing clip	16.5–18	GTP	100	1360 18 3
732	Cable and pipe spacing clip	18.5–20	GTP	50	1360 20 5
732	Cable and pipe spacing clip	20–22	GTP	50	1360 22 1
732	Cable and pipe spacing clip	22–24	GTP	50	1360 24 8
732	Cable and pipe spacing clip	24–26	GTP	50	1360 26 4




Type	Designation	Clamping range in mm	Surface	Packaging	Art. no.
733	Cable and pipe spacing clip	11–13	G	50	1361 13 9
733	Cable and pipe spacing clip	14–16	G	50	1361 16 3
733	Cable and pipe spacing clip	17–19	G	50	1361 19 8
733	Cable and pipe spacing clip	19–21	G	50	1361 20 1
733	Cable and pipe spacing clip	21–23	G	50	1361 23 6
733	Cable and pipe spacing clip	24–29	G	50	1361 29 5




Type	Designation	Clamping range in mm	Surface	Packaging	Art. no.
2056/M	U clamp	8–12	FT	100	1156 00 4
2056/M	U clamp	12–16	FT	100	1156 01 2
2056/M	U clamp	16–22	FT	100	1156 02 0
2056/M	U clamp	22–28	FT	100	1156 03 9
2056/M	U clamp	28–34	FT	100	1156 04 7



Type	Designation	Measurement in mm	Surface	Packaging	Art. no.
1268	DIN rails	300 x 35 x 18 x 1.25	FS	25	1104 28 4
1268	DIN rails	400 x 35 x 18 x 1.25	FS	10	1104 29 2
1268	DIN rails	500 x 35 x 18 x 1.25	FS	10	1104 30 6
1268	DIN rails	2000 x 35 x 18 x 1.25	FS	25	1104 50 0
2068	DIN rails	2000 x 35 x 18 x 2.00	FT	20	1119 65 6



Type	Designation	Measurement in mm	Surface	Packaging	Art. no.
MMS6	Fire prevention anchor bolt For clip type 733 and DIN rails assembly	6 x 50	CC	100	3498 10 7
MMS-ST	Fire prevention anchor bolt For clip type 732	6 x 60	G	100	3498 26 3



Type	Designation	Measurement in mm	Surface	Packaging	Art. no.
FNA II 6	Anchor bolt For clip type 732 and DIN rails assembly	M6/5	G	100	3498 42 5



Type	Designation	Measurement in mm	Surface	Packaging	Art. no.
FNA II 6	Nail tie For clip type 733 and DIN rails assembly	6 x 30	G	100	3498 46 8

### Just don't let things heat up too quickly

In modern buildings, standards of fire safety in regard to installations are constantly increasing. So that you can be sure to maintain these standards, OBO offers an abundance of fireproof installation possibilities, all made from steel: Cable and pipe brackets, multiple cable holders, cable clips and, of course, also cable bearing systems for a greater number of functional integrity cables.

### Emergency route installation systems

Secure installation in emergency and escape routes is a further building block in the OBO fire prevention system. Be it fire prevention canals or systems that are mounted between floors, these systems fulfil all the requirements of a fireproof installation.

### Sealing systems and functional integrity systems

To round things off, all systems are protected by all types of sealing and cable bearing systems for the maintaining of security-relevant units. This entire one-stop package fulfils all prevention goals as required by building regulations, to hinder the spreading of fire, to secure emergency routes and to maintain function.



OBO. Used by professionals.



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