



## Polyester distribution boxes

### Description

Polyester distribution boxes have been of great advantage in many industrial plants. They offer safe protection even when they are exposed to extreme environmental conditions, aggressive chemical media or high mechanical stress.

The narrow sides within the enclosure hold threaded bushings for the fixing of terminal rails or mounting panels. The enclosure is mounted by means of insulated screws outside of the lid sealing gasket.

These black high-quality explosion-proofed enclosures are used in hazardous areas by inflammable dust (Zone 21 and 22). The fundamental prerequisites of the "protection through enclosure" protection class are fulfilled with the heating up calculation as per the accompanying sheet and a separate IP protection test. EC model test certification was issued in 2000 by the nominated body IBEExU.

### Option

External feet of high-quality stainless steel

### Components

Rail-mounted terminals, terminal markers, cable glands, mounting panels, rails, type labels, labels

### 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.

### Explosion protection

#### Ex protection type

IP distribution box **black** 07-5178-.../...  
 Ex e distribution box **black** 07-5103-.../...  
 Ex i distribution box **black** 07-5105-.../...

**ATEX** II 2G Ex e IIA, IIB, IIC T6, T5 Gb  
 II 2G Ex ia/ib IIA, IIB, IIC T6, T5 Gb  
 II 2D Ex tb IIIC T80 °C, T95 °C Db IP 66  
 II 2D Ex ia/ib IIIC T80 °C, T95 °C Db

#### Certification

Zone 1 + 2 and 21 + 22  
 PTB 08 ATEX 1064

#### IECEX

Ex e IIA, IIB, IIC T6, T5 Gb  
 Ex ia/ib IIA, IIB, IIC T6, T5 Gb  
 Ex tb IIIC T80 °C, T95 °C Db IP 66  
 Ex ia/ib IIIC T80 °C, T95 °C Db

#### Certification

Zone 1 + 2 and 21 + 22  
 PTB 09.0009X

Other approvals and certificates, see [www.bartec-group.com](http://www.bartec-group.com)

### Explosion protection

#### Ex protection type

IP distribution box **grey** 07-5177-.../...  
 Ex e distribution box **grey** 07-5106-.../...  
 Ex i distribution box **grey** 07-5107-.../...

**ATEX** II 2G Ex e IIA, IIB, IIC T6, T5 Gb  
 II 2G Ex ia/ib IIA, IIB, IIC T6, T5 Gb

#### Certification

Zone 1 + 2 and 21 + 22  
 PTB 08 ATEX 1064

#### IECEX

Ex e IIA, IIB, IIC T6, T5 Gb  
 Ex ia/ib IIA, IIB, IIC T6, T5 Gb

#### Certification

Zone 1 + 2 and 21 + 22  
 PTB 09.0009X

Other approvals and certificates, see [www.bartec-group.com](http://www.bartec-group.com)

#### Ambient temperature ranges

(special temperature ranges on request)  
 -20 °C (-55 °C) to +40 °C at T6 -20  
 °C (-55 °C) to +55 °C at T5

### Technical data

#### Material

glass-fibre reinforced polyester, EN 60079-0  
 halogen-free  
**black** surface resistance < 10<sup>9</sup> Ω  
**grey** surface resistance > 10<sup>12</sup> Ω

#### Farbe

**black** RAL 9005  
**grey** RAL 7000/RAL 7001

#### Lid screws

(other models on request)  
 stainless steel, captive  
 cross-head (+ -)

#### Standard seals

EPDM -20° C to +95° C  
 optional  
 silicone -55° C to +95° C

#### Mechanical resistance

according to EN 60079-0  
 impact energy 7 Nm

**Protection class** EN 60529/IEC 60529  
 IP 66

**Rated voltage**  
 max. 1 100 V



The table on this page applies to the following polyester distribution boxes:

IP distribution box black 07-5178-.../... Ex e distribution box black 07-5103-.../... Ex i distribution box black 07-5105-.../...  
 IP distribution box grey 07-5177-.../... Ex e distribution box grey 07-5106-.../... Ex i distribution box grey 07-5107-.../...

Rail-mounted terminal components/maximum number											Polyester distribution boxes										
Article no. Polyester distribution boxes	Mini-terminal 07-9702-....		AKZ4 03-7112-0006		WDU 2.5 03-7111-0012		WDU 2.5 bi 03-7111-0012		WDU 4 03-7112-0015												
	mounting rail	Terminals per rail	mounting rail	Terminals per rail	mounting rail	Terminals per rail	mounting rail	Terminals per rail	mounting rail	Terminals per rail											
07-□□□□ -0800/7555	1	6	1	8	-	-	-	-	-	-											
07-□□□□ -1100/7555	1	8	1	13	-	-	-	-	-	-											
07-□□□□ -1600/7555	1	12	1	21	-	-	-	-	-	-											
07-□□□□ -1900/7555	1	16	1	26	-	-	-	-	-	-											
07-□□□□ -2300/7550	1	19	1	32	-	-	-	-	-	-											
07-□□□□ -1221/2090	2	8	1	14	1	16	1	16	1	14											
07-□□□□ -1221/2012	2	8	1	14	1	16	1	16	1	14											
07-□□□□ -2201/2090	2	17	1	30	1	35	1	35	1	30											
07-□□□□ -1601/6090	-	-	2	18	1	24	1	23	1	20											
07-□□□□ -1601/6012	-	-	2	18	1	24	1	23	1	20											
07-□□□□ -2601/6090	-	-	2	34	1	43	1	42	1	34											
07-□□□□ -3601/6090	-	-	-	-	1	60	1	62	1	50											
07-□□□□ -2552/5012	-	-	-	-	2	43	3	42	2	35											
07-□□□□ -2552/5016	-	-	-	-	2	43	3	42	2	35											
07-□□□□ -4002/5012	-	-	-	-	2	67	3	70	2	56											
07-□□□□ -4002/5016	-	-	-	-	2	67	3	70	2	56											
07-□□□□ -4004/0512	-	-	-	-	3	67	5	70	3	56											
07-□□□□ -4004/0516	-	-	-	-	3	67	5	70	3	56											
07-□□□□ -6002/5012	-	-	-	-	2	108	2	110	1	91											



The table on this page applies to the following polyester distribution boxes:

IP distribution box black 07-5178-.../... Ex e distribution box black 07-5103-.../... Ex i distribution box black 07-5105-.../...  
 IP distribution box grey 07-5177-.../... Ex e distribution box grey 07-5106-.../... Ex i distribution box grey 07-5107-.../...

Article no. Polyester distribution boxes	Side	Polyester distribution boxes									
		M12 x 1,5	M16 x 1,5	M20 x 1,5 extended	M20 x 1,5	M20 x 1,5 extended	M25 x 1,5	M32 x 1,5	M40 x 1,5	M50 x 1,5	M63 x 1,5
07-□□□□ -0800/7555	A/B C/D	4 1	2 1	2 -	2 -	1 -	1 -	- -	- -	- -	- -
07-□□□□ -1100/7555	A/B C/D	6 1	4 1	3 -	3 -	2 -	2 -	- -	- -	- -	- -
07-□□□□ -1600/7555	A/B C/D	12 1	6 1	5 -	4 -	4 -	3 -	- -	- -	- -	- -
07-□□□□ -1900/7555	A/B C/D	15 1	8 1	6 -	5 -	5 -	4 -	- -	- -	- -	- -
07-□□□□ -1221/2090	A/B C/D	13 4	9 4	5 2	5 2	4 2	3 1	2 1	1 1	1 -	- -
07-□□□□ -1221/2012	A/B C/D	13 4	9 4	5 2	5 2	4 2	3 1	2 1	1 1	1 -	- -
07-□□□□ -2201/2090	A/B C/D	28 4	18 4	12 2	11 2	10 2	5 1	3 1	3 1	2 -	- -
07-□□□□ -1601/6090	A/B C/D	18 8	14 8	8 5	8 4	6 4	4 2	2 2	2 1	1 -	- -
07-□□□□ -1601/6012	A/B C/D	18 8	14 8	8 5	8 4	6 4	4 2	2 2	1 1	1 -	- -
07-□□□□ -2601/6090	A/B C/D	33 8	26 8	17 5	14 4	12 4	7 2	4 2	3 1	3 -	- -
07-□□□□ -3601/6090	A/B C/D	48 8	38 8	24 5	20 4	18 4	10 2	6 2	5 1	4 -	- -
07-□□□□ -2002/5012	A/B C/D	24 12	16 12	10 10	9 8	7 8	4 4	3 3	2 2	2 2	- 2
07-□□□□ -2552/5012	A/B C/D	53 12	34 12	23 10	20 8	18 8	9 4	7 3	4 2	3 2	2 2
07-□□□□ -2552/5016	A/B C/D	53 12	34 12	23 10	20 8	18 8	9 4	7 3	4 2	3 2	2 2
07-□□□□ -4002/5012	A/B C/D	88 12	58 12	38 10	35 8	30 8	17 4	13 3	6 2	5 2	4 2
07-□□□□ -4002/5016	A/B C/D	88 12	58 12	38 10	35 8	30 8	17 4	13 3	6 2	5 2	4 2
07-□□□□ -4004/0512	A/B C/D	88 26	58 20	38 16	35 14	30 10	17 6	13 4	6 2	5 4	4 3
07-□□□□ -4004/0516	A/B C/D	135 42	89 38	58 34	53 30	46 24	26 8	20 5	9 3	7 6	4 4
07-□□□□ -6002/5012	A/B C/D	130 12	84 12	56 10	52 8	46 8	24 4	18 3	10 2	6 2	4 2

03-0330-0197-10/2014-BCS-201168/3

Each enclosure side wall has only a limited number of gland entries to ensure the mechanical stability of the enclosure.





The table on this page applies to the following polyester distribution boxes:

*IP distribution box black 07-5178-.../... Ex e distribution box black 07-5103-.../... Ex i distribution box black 07-5105-.../...*  
*IP distribution box grey 07-5177-.../... Ex e distribution box grey 07-5106-.../... Ex i distribution box grey 07-5107-.../...*

External dimensions, earth bars, mounting panels				Polyester distribution boxes				
Article no. Polyester enclosure	External dimensions in mm			Earth bars			Mounting panel	
	Length	Width	Height	Type	Order no.	Type	Order no.	Order no.
07-□□□□ -0800/7555	80	75	55	MK 2	05-0012-0006	-	-	05-2105-0002
07-□□□□ -1100/7555	110	75	55	MK 2	05-0012-0006	-	-	05-2105-0003
07-□□□□ -1600/7555	160	75	55	MK 2	05-0012-0006	-	-	05-2105-0004
07-□□□□ -1900/7555	190	75	55	MK 2	05-0012-0006	-	-	05-2105-0005
07-□□□□ -1221/2090	122	120	90	QS 3	05-0012-0091	LS 4	05-0012-0100	05-0105-0100
07-□□□□ -1221/2012	122	120	120	QS 3	05-0012-0091	LS 4	05-0012-0100	05-0105-0100
07-□□□□ -2201/2090	220	120	90	QS 3	05-0012-0091	LS 9	05-0012-0101	05-0105-0101
07-□□□□ -1601/6090	160	160	90	QS 5	05-0012-0092	LS 5	05-0012-0010	05-0105-0103
07-□□□□ -1601/6012	160	160	120	QS 5	05-0012-0092	LS 5	05-0012-0010	05-0105-0103
07-□□□□ -2601/6090	260	160	90	QS 5	05-0012-0092	LS 11	05-0012-0102	05-0105-0104
07-□□□□ -3601/6090	360	160	90	QS 5	05-0012-0092	LS 16	05-0012-0103	05-0105-0105
07-□□□□ -2552/5012	255	250	120	QS 9	05-0012-0096	LS 11	05-0012-0105	05-0105-0113
07-□□□□ -2552/5016	255	250	160	QS 9	05-0012-0096	LS 11	05-0012-0105	05-0105-0113
07-□□□□ -4002/5012	400	250	120	QS 9	05-0012-0096	LS 18	05-0012-0016	05-0105-0114
07-□□□□ -4002/5016	400	250	160	QS 9	05-0012-0096	LS 18	05-0012-0016	05-0105-0114
07-□□□□ -4004/0512	400	405	120	QS 15	05-0012-0097	LS 18	05-0012-0016	05-0105-0117
07-□□□□ -4004/0516	400	405	120	QS 15	05-0012-0097	LS 18	05-0012-0016	05-0105-0117
07-□□□□ -6002/5012	600	250	120	QS 9	05-0012-0096	LS 28	05-0012-0106	05-0105-0199