



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 IBExU.

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.

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

Explosion protection

Ex protection type (according to EN 60079-0)	Ⓔx II 2G Ex e II T6 resp. T5 Ⓔx II 2G Ex ia IIC T6 resp. T5 Ⓔx II 2D Ex tD A21 IP6x T 80 °C	Ⓔx II 2G Ex e II T6 resp. T5 Ⓔx II 2G Ex ia IIC T6 resp. T5
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	-20 °C (-55 °C) to +40 °C at T6 -20 °C (-55 °C) to +55 °C at T5
Certification For Zone 1 and 2 For Zone 21 and 22 (further certifications on request)	PTB 08 ATEX 1064 IBExU00ATEX1081	PTB 08 ATEX 1064 IBExU00ATEX1082
Germanischer LLoyd (Germany) IECEx INMETRO (Brazil) Gost-R (Russia) RTN (Russia) KOSHA (Korea) NEPSI (China)	30 584-83 HH PTB 09.0009X 2009EC02CP003 POCC SI.ME 92.BO1671 PPC 00-33604 09-AV4B0-0403X GYJ05305	30 584-83 HH PTB 09.0009X 2009EC02CP003 POCC SI.ME 92.BO1671 PPC 00-33604 09-AV4B0-0403X GYJ05305

Technical data

Material	glass-fibre reinforced polyester, EN 60079-0 surface resistance < 10^9 Ω	glass-fibre reinforced polyester, EN 60079-0 surface resistance > 10^{12} Ω
	halogen-free	halogen-free
Colour	RAL 9005, black	RAL 7000/RAL 7001, grey
Lid screws (other models on request)	stainless steel, captive cross-head (+ -)	stainless steel, captive cross-head (+ -)
Standard seals **optional**	EPDM -20° C to +100° C silicone -55° C to +100° C	EPDM -20° C to +100° C silicone -55° C to +100° C
Mechanical resistance according to EN 60079-0	impact energy 7 Nm	impact energy 7 Nm
Protection class EN 60529/IEC 60529	IP 66	IP 66
Rated voltage	max. 1 100 V	max. 1 100 V

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

*IP distribution box black 07-51**78**-..../.... Ex e distribution box black 07-51**03**-..../.... Ex i distribution box black 07-51**05**-..../....*
*IP distribution box grey 07-51**77**-..../.... Ex e distribution box grey 07-51**06**-..../.... Ex i distribution box grey 07-51**07**-..../....*

Rail-mounted terminal components/maximum number — **Polyester distribution boxes**

Article no. Polyester distribution boxes	**Mini-terminal** 07-7902-....		**AKZ4** 03-7112-0006		**WDU 2.5** 03-7111-0012		**WDU 2.5 bl** 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	-	-
07- ☐☐☐☐ -1221/2012	2	8	1	14	-	-	1	16	-	-
07- ☐☐☐☐ -2201/2090	2	17	1	30	-	-	1	35	-	-
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

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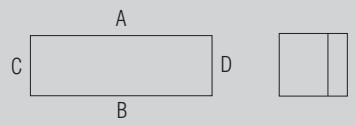
IP distribution box black 07-5178-..../.... Ex e distribution box black 07-5103-..../.... Ex i distribution box black 07-5105-..../....
IP distribution box grey 07-5177-..../.... Ex e distribution box grey 07-5106-..../.... Ex i distribution box grey 07-5107-..../....

Cable glands/maximum number



Polyester distribution boxes

Article no. Polyester distribution boxes	**Side**	**M12 x 1.5**	**M16 x 1.5**	**M16 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- □□□□ -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

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

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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.	**External dimensions** in mm			**Earth bars**				**Mounting panel**
Polyester enclosure	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	160	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**

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