Electronic component holder terminal blocks

Blocks with gas discharger

Compression clamp

Solder to solder

DIN 1 - 3

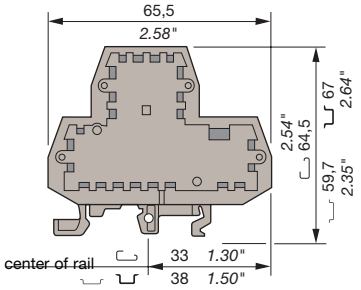
Note: if the current immediately after triggering is greater than 1 A (peak), install a protective device able to reduce the fault current

BAMH	th. 9,1 mm	0114 836.00
BADLV0	th. 9,0 mm	0199 408.02
BAM	th. 9,1 mm	0103.002.26
PR1Z2	32 x 15 x 1,5	0163 050.04
PR3Z2	35 x 7,5 x 1	0174 300.17
PR4	35 x 15 x 2,3	0168 500.12
PR5	35 x 15 x 1,5	0168 700.22

Other rails : See Accessories section
Other accessories : See Accessories section

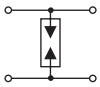
M 4/9.PE.90

Spacing 9 mm .354"



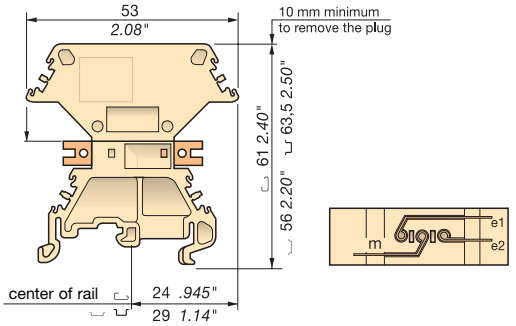
M 4/9 block equipped with a 3 mm end plate and a gas discharger between two decks.

Color	Type	P/N
Grey	**M 4/9.PE.90**	**0007 028.22**



M 2,5/14.S.H.2

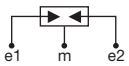
Spacing 14 mm .551"



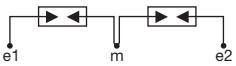
Terminal block with removable plug fitted with gas discharger. Plug available separately.

Color	Type	P/N
Block only (without plug) :		
Beige V0	**M 2,5/14.S.H.2**	**0199 291.24**
Red V0	**M 2,5/14.S.H.2**	**0199 292.25**
Plug fitted with 1 dual discharger, 350 V		
Beige V0	**BNS 14.1E**	**0199 294.27**
with 2 dischargers, 1500 V		
Red V0	**BNS 14.2E**	**0199 297.22**

BNS 14.1E



BNS 14.2E



Characteristics

			Plug with 1 discharger	Plug with 2 dischargers
Static priming voltage	min.	75 V	280 V(3)	1275 V (3)
	nominal	90 V	350 V(3)	1500 V (3)
	max.	105 V	420 V(3)	1725 V (3)
Dynamic priming voltage (1 kV / µs)		730 V	≤ 1000 V (3) max.	3500 V (3) max.
Max. operating voltage				
	DC	70 V	260 V	1150 V (5)
	AC	50 V	180 V	800 V (5)
Discharge shock current (8 / 20 µs wave)		5 kA	10 kA (3)	15 kA (3)
AC discharge current		5 A (1s, 50 Hz)	10 A (1s, 50 Hz)	5 A (1s, 50 Hz)
Capacity pF		≈ 1 pF	≤ 5 pF	2 pF
Residual voltage with stable arc		10 V	≤ 35 V	10 V
Voltage with discharge		75 V	80 V	80 V

Characteristics

			IEC NFC DIN	UL	CSA	IEC NFC DIN	UL	CSA
Wire size	Screw	Solid wire	0,2-4 mm²					
		Stranded wire	0,22-4 mm²					
	Soldered	Solid wire				0,5-4 mm²		
		Stranded wire				0,5-2,5 mm²		
Rated voltage	Nominal					250 V (3) / 400 V (4)		
	Pulse					4 kV		
	Pollution degree					3		
Rated current A	Nominal		26					
Rated wire size	Nominal / Gauge		4 mm² / A4			2,5 mm²		

Other characteristics

Wire stripping length	Recommended screwdriver	Recommended torque	Protection	Wire stripping length	Recommended screwdriver	Recommended torque	Protection
8,5 mm .33"	4 mm	0,4-0,6 Nm 3.5-5.3 lb.in	IP 20 NEMA 1	10 mm .39"			IP 00

Accessories

		Type		Part number	Type	Part number
2	Test socket	**AL2** (1)	DIA. 2.0 mm	**0163 070.00**		
		AL3 (1)	DIA. 3.0 mm	**0163 261.00**		
3	Test device	**DCG**	grey	**0163 218.05**		
4	Test plug	**FC2**	DIA. 2.0 mm	**0007 865.26**		
5	Jumper bar (not preassembled)	**BJS9** (1)(2)	8 poles	**0177 583.12**		
		BJS9 (1)(2)	16 poles	**0177 584.13**		
6	Sub-assembly for jumper bar (screw+washer+post))	**EV6D** (1)(2)		**0168 400.16**		
7	IDC Jumper	**AD2,5**		**0114 205.20**		
R	See section on Markers					
	Marking	⑪			⑰	

(1) These accessories can be used on the lower connection only. (2) Use of these accessories requires the user to cut out the partition.
(3) Between e1-m or e2-m. (4) Between e1-e2. (5) Voltage for component. For max. voltage, refer to rated voltage of the partition.

Electronic component holder terminal blocks With transzorb

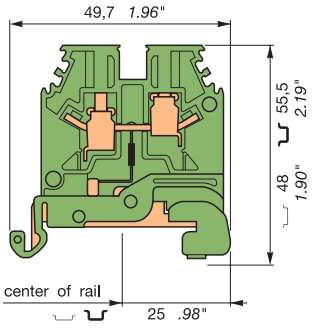
Compression clamp

DIN 3

D 4/6.PZ.../...

DC

Spacing 6 mm .236"



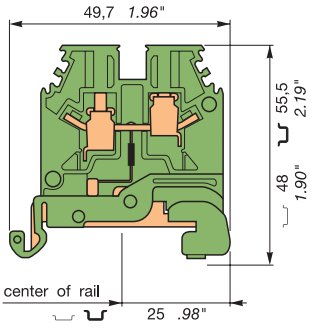
Type		P/N
Green body		
D 4/6.PZ 24/15	24 V DC	**0007 035.11**
D 4/6.PZ 48/24	48 V DC	**0007 034.10**

Spring-loaded rail contact

D 4/6.PZ.../...

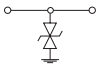
AC

Spacing 6 mm .236"



Type		P/N
Green body		
D 4/6.PZ 48/24	24 V AC	**0007 034.10**

Spring-loaded rail contact



BADL th. 9,0 mm **0199 408.02**
Other end stop : See Accessories section
PR3Z2 35 x 7,5 x 1 **0174 300.17**
PR4 35 x 15 x 2,3 **0168 500.12**
PR5 35 x 15 x 1,5 **0168 700.22**
Other rails : See Accessories section
Other accessories : See Accessories section

Characteristics

Type		Rated voltage ± 20% DC (V)	Rated voltage ± 10% AC (V)	Breakdown voltage VRB (V) I=1mA mini.	Breakdown voltage VRB (V) I=1mA maxi.	Maximum surge current Clamping voltage 10/1000 µs VCL (V)	10/1000 µs Ipp (A)	8/20 µs VCL (V)	8/20 µs Ipp (A)	Leakage current IRM (µA)	Stand-off voltage VRM (V)	Capacitance (pF)
D 4/6.PZ	24/15	24	15	33,3	36,8	48,4	10,3			3	30	
D 4/6.PZ	48/24	48	24	64,6	71,4	92	6,5	121	59,5	5	58,1	625

Note : Given for 600 W in 10/1000 µs and 7,2 kW in 8/20 µs.

Characteristics

		NFC	DIN	UL	CSA
Wire size	Compression clamp — Solid wire	0,2-4 mm²			
	Compression clamp — Stranded wire	0,22-4 mm²			
Rated voltage	V ~				
	V =				
Rated current	A				
Rated wire size					

Other characteristics	Wire stripping length	Recommended screwdriver	Recommended torque	Protection
	9,5 mm .37"	4 mm	0,5-0,8 Nm 4.4-7.1 lb.in	IP 00

Accessories

			Type		P/N
1	End section	green	**FEM 6**	th. 2,8 mm	**0103 125.15**

R See section on markers marking method (11)

	NFC	DIN	UL	CSA
Wire size	0,2-4 mm²			
	0,22-4 mm²			
Rated voltage				
Rated current				
Rated wire size				

Other characteristics	Wire stripping length	Recommended screwdriver	Recommended torque	Protection
	9,5 mm .37"	4 mm	0,5-0,8 Nm 4.4-7.1 lb.in	IP 00

Accessories

			Type		P/N
1	End section	green	**FEM 6**	th. 2,8 mm	**0103 125.15**

(11)

Electronic component holder terminal blocks With transzorb Series 7 000

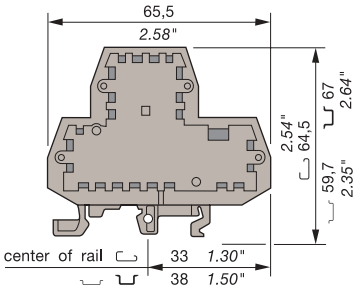
Compression clamp

DIN 1 - 3

M 4/9.PZ.../...

5 to 130 V DC

Spacing 9 mm .354"



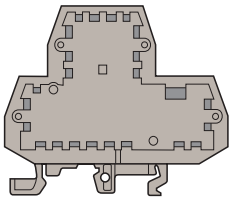
M 4/9 block equipped with a 3 mm end plate and a bidirectional silicon transient voltage suppressor between two decks.

Type		P/N
Grey body		
M 4/9.PZ 5/3	5 V DC	**0007 015.15**
M 4/9.PZ 12/8	12 V DC	**0007 016.16**
M 4/9.PZ 15/12	15 V DC	**0007 017.17**
M 4/9.PZ 24/15	24 V DC	**0007 018.20**
M 4/9.PZ 48/36	48 V DC	**0007 020.26**
M 4/9.PZ 60/48	60 V DC	**0007 021.13**
M 4/9.PZ 130/60	110-130 V DC	**0007 022.14**

M 4/9.PZ.../...

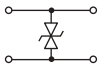
12 to 240 V AC

Spacing 9 mm .354"



M 4/9 block equipped with a 3 mm end plate and a bidirectional silicon transient voltage suppressor between two decks.

Type		P/N
Grey body		
M 4/9.PZ 15/12	12 V AC	**0007 017.17**
M 4/9.PZ 24/15	15 V AC	**0007 018.20**
M 4/9.PZ 35/24	24 V AC	**0007 019.21**
M 4/9.PZ 60/48	48 V AC	**0007 021.13**
M 4/9.PZ 130/60	60 V AC	**0007 022.14**
M 4/9.PZ 187/130	110-130 V AC	**0007 023.15**
M 4/9.PZ 348/240	220-240 V AC	**0007 024.16**



BAMH	th. 9,1 mm	**0114 836.00**

Other end stops : See Accessories section

PR30	35 x 7,5 x 1	**0173 220.05**
PR4	35 x 15 x 2,3	**0168 500.12**
PR5	35 x 15 x 1,5	**0101 598.26**
PR1Z2	32 x 15 x 1,5	**0163 050.04**

Other rails : See Accessories section

Other accessories : See Accessories section

Characteristics

Type	Rated voltage to ± 20% DC (V)	Rated voltage to ± 20% AC (V)	Breakdown voltage (V) min.	Breakdown voltage (V) max.	Max. surge current Clamping voltage 10/1000 µs VCL (V)	10/1000 µs Ipp (A)	8/20 µs VCL (V)	8/20 µs Ipp (A)	Leakage current IRM (µA)	Stand-off voltage VRM (V)	Capacitance (pF)
M 4/9.PZ 5/3	5	3	6.45	7.48	10.5	143	13.4	1343	1000	5.8	22000
M 4/9.PZ 12/8	12	8	15.2	17.6	22.5	67	28.9	623	5	13.6	7000
M 4/9.PZ 15/12	15	12	20.9	24.2	30.6	49	39.3	458	5	18.8	5100
M 4/9.PZ 24/15	24	15	31.4	36.3	45.7	33	59	305	5	28.2	3250
M 4/9.PZ 35/24	35	24	44.7	51.7	64.8	23.2	84	214	5	40.2	2200
M 4/9.PZ 48/36	48	36	64.6	74.8	92	16.3	121	148	5	58.1	1500
M 4/9.PZ 60/48	60	48	86.5	100	125	12	162	111	5	77.8	1100
M 4/9.PZ 130/60	130	60	161	187	234	6.4	301	60	5	145	600
M 4/9.PZ 187/130	187	130	237	275	344	5	442	47	5	213	410
M 4/9.PZ 348/240	348	240	418	484	603	3.5	776	33	5	376	240

Note : Given for 1,5 kW in 10/1000 µs and 18 kW in 8/20 µs.

Characteristics

		NFC	DIN	UL	CSA	NFC	DIN	UL	CSA
Wire size	Compression clamp Solid wire	0,5-4 mm²				0,5-4 mm²			
	Stranded	0,5-4 mm²				0,5-4 mm²			
wire									
Rated voltage	V ~								
	=								
Rated current	A	26				26			
Rated wire size		4 mm²				4 mm²			

Other characteristics

Wire stripping length	Recommended screwdriver	Recommended torque	Protection
8,5 mm .33"	4 mm	0,4-0,6 Nm 3.5-5.3 lb.in	IP 20 NEMA 1

Accessories

		Type		P/N
1	Test socket	**AL2** (1)	DIA. 2 mm	**0163 070.00**
		AL3 (1)	DIA. 3 mm	**0163 261.00**
2	Test device	**DCG**	grey	**0163 218.05**
3	Test plug	**FC2**	DIA. 2 mm	**0007 865.26**
4	Jumper bar not assembled	**BJS9** (1)(2)	8 poles	**0177 583.12**
		BJS9 (1)(2)	16 poles	**0177 584.13**
5	Sub-assembly for jumper bar (screw + washer + post)	**EV6D** (1)(2)		**0168 400.16**
6	IDC jumper	**AD2,5**		**0114 205.20**
R	See section on markers marking method			

Note : (1) These accessories can be used on the lower connection only.
(2) Use of these accessories requires the user to cut out the partition.

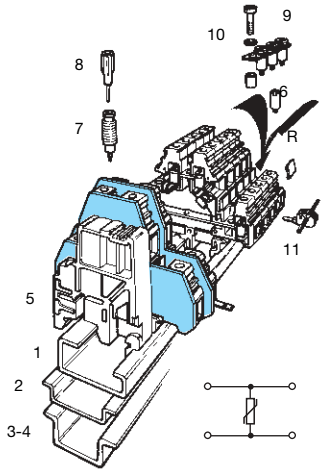
protechline

Electronic component holder terminal blocks

Blocks with varistor

Series 7 000

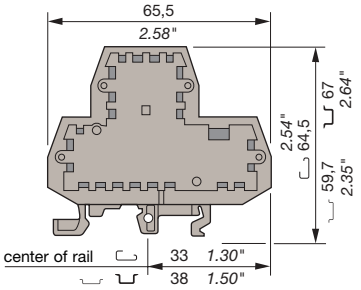
DIN 1 - 3



M 4/9.PV.../...

5 to130 V DC

Spacing 9 mm .354"



M 4/9 block equipped with a 3 mm end plate and a bidirectional metal oxide transient voltage suppressor between two decks.

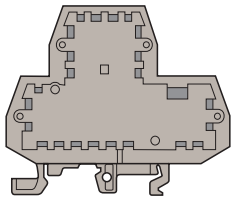
Type			P/N
Grey body			
M 4/9.PV 5/4	5	V DC	**0007 004.23**
M 4/9.PV 12/8	12	V DC	**0007 005.24**
M 4/9.PV 15/12	15	V DC	**0007 006.25**
M 4/9.PV 24/15	24	V DC	**0007 007.26**
M 4/9.PV 48/35	48	V DC	**0007 009.00**
M 4/9.PV 60/48	60	V DC	**0007 010.24**
M 4/9.PV 130/60	110-130	V DC	**0007 011.11**

Protection in "ZONE 2"

M 4/9.PV.../...

12 to 240 V AC

Spacing 9 mm .354"



M 4/9 block equipped with a 3 mm end plate and a bidirectional metal oxide transient voltage suppressor between two decks.

Type			P/N
Grey body			
M 4/9.PV 15/12	12	V AC	**0007 006.25**
M 4/9.PV 24/15	15	V AC	**0007 007.26**
M 4/9.PV 35/24	24	V AC	**0007 008.07**
M 4/9.PV 60/48	48	V AC	**0007 010.24**
M 4/9.PV 130/60	60	V AC	**0007 011.11**
M 4/9.PV 165/110	110	V AC	**0007 012.12**
M 4/9.PV 270/130	130	V AC	**0007 013.13**
M 4/9.PV 508/240	220-240	V AC	**0007 014.14**

Protection in "ZONE 2"

Characteristics

Type	Max. operating voltage DC (V)	Max. operating voltage AC (V)	Max. impulse current with an 8/20 µs current wave (A)	Varistor voltage at 1 mA DC test current min. (V)	Varistor voltage at 1 mA DC test current max. (V)	Peak clamping voltage with 8/20 µs wave Vc (V)	Peak clamping voltage with 8/20 µs wave Ip (A)	Capacitance (pF)
M 4/9.PV 5/4	5.5	4.2	250	6	11	20	5	12000
M 4/9.PV 12/8	14	10	500	14.4	21.6	39	5	6000
M 4/9.PV 15/12	22	17	500	23	31.1	53	5	4000
M 4/9.PV 24/15	26	20	500	29.5	36.5	64	5	3500
M 4/9.PV 35/24	38	30	500	42	52	89	5	2500
M 4/9.PV 48/35	56	40	500	61	75	123	5	1800
M 4/9.PV 60/48	81	60	2500	90	110	165	25	900
M 4/9.PV 130/60	153	115	2500	162	198	300	25	550
M 4/9.PV 165/110	180	140	2500	198	242	360	25	480
M 4/9.PV 270/130	300	230	2500	324	396	595	25	300
M 4/9.PV 508/240	560	420	2500	610	748	1120	25	220

Note : Average power dissipation of transient not to exceed 0.4 W.

Characteristics

			DIN-VDE	UL	CSA	NFC-UTE			
Wire size	Solid wire		0-4 mm²			0-4 mm²	0-4 mm²		0-4 mm²
	Stranded wire		0-4 mm²			0-4 mm²	0-4 mm²		0-4 mm²
Voltage	V	~							
Current	A	=	26			30	26		30
Rated wire size			4 mm²			2.5 mm²	4 mm²		2.5 mm²

Other characteritics

	DIN-VDE Wire stripping length	DIN-VDE DIA. screwdriver	DIN-VDE Torque	DIN-VDE Protection	UL Wire stripping length	UL DIA. screwdriver	UL Torque	UL Protection
	8.5 mm .33"	4 mm	0.4-0.6 Nm 3.5-5.3 lb.in	IP 20 NEMA 1	8.5 mm .33"	4 mm	0.4-0.6 Nm 3.5-5.3 lb.in	IP 20 NEMA 1
Approvals (Contact Entrelec)				CE				CE

Accessories

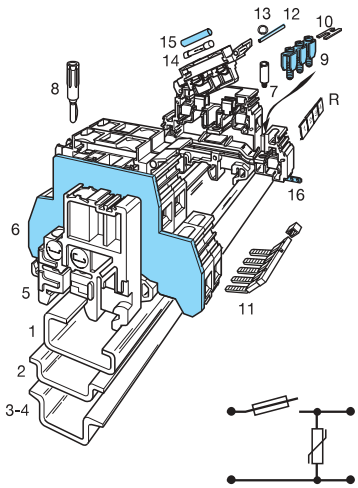
			Type			P/N	Type			P/N
1	Rail	32 x 15	**PR1 Z2**			**0163 050.04**	**PR1 Z2**			**0163 050.04**
2	Rail	35 x 7.5 x 1	**PR3 G2**			**0164 800.03**	**PR3 G2**			**0164 800.03**
3	Rail	35 x 15 x 2.3	**PR4**			**0168 500.12**	**PR4**			**0168 500.12**
4	Rail	35 x 15 x 1.5	**PR5**			**0168 700.22**	**PR5**			**0168 700.22**
5	High end stop (all rails)		**BAMH**	th. 9.1	mm	**0114 836.00**	**BAMH**	th. 9.1	mm	**0114 836.00**
6	Test socket		**AL2** (1)	DIA. 2	mm	**0163 070.00**	**AL2** (1)	DIA. 2	mm	**0163 070.00**
			AL3 (1)	DIA. 3	mm	**0163 261.00**	**AL3** (1)	DIA. 3	mm	**0163 261.00**
7	Test device		**DCG**		grey	**0163 218.05**	**DCG**		grey	**0163 218.05**
8	Test plug		**FC2**	DIA. 2	mm	**0007 865.26**	**FC2**	DIA. 2	mm	**0007 865.26**
9	Jumper bar (not preassembled)		**BJS9** (1)(2)	8	poles	**0177 583.12**	**BJS9** (1)(2)	8	poles	**0177 583.12**
			BJS9 (1)(2)	16	poles	**0177 584.13**	**BJS9** (1)(2)	16	poles	**0177 584.13**
10	Sub-assembly for jumper bar (screw + washer +post)		**EV6D** (1)(2)			**0168 400.16**	**EV6D** (1)(2)			**0168 400.16**
11	IDC jumper		**AD2.5**			**0114 205.20**	**AD2.5**			**0114 205.20**
R	See marking section									

(1) These accessories can be used on the lower connection only.
(2) Use of these accessories requires the user to cut out the partition.

protechline

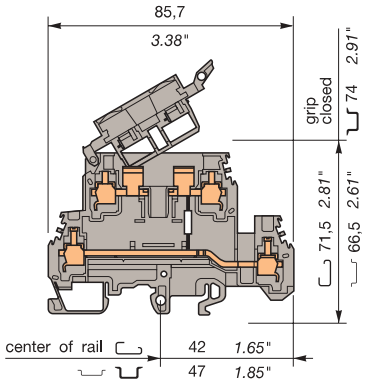
Double deck terminal blocks Fuse-holder with varistor

DIN 1 - 3



M 4/8.D2.SF.PV.../...

Spacing 8 mm .315"



M 4/8.D2.SF.PV... Fuse-holder with a varistor between the two stages.

Type		P/N
24 or 48 V DC Grey body		
M 4/8.D2.SF.PV 24/15	24 V DC	**0007 043.21**
M 4/8.D2.SF.PV 48/35	48 V DC	**0007 045.23**
Protection "ZONE 2"		

Type		P/N
15 to 240 V AC Grey body		
M 4/8.D2.SF.PV 24/15	15 V AC	**0007 043.21**
M 4/8.D2.SF.PV 35/24	24 V AC	**0007 044.22**
M 4/8.D2.SF.PV 165/110	110 V AC	**0007 048.06**
M 4/8.D2.SF.PV 270/130	130 V AC	**0007 049.07**
M 4/8.D2.SF.PV 508/240	220-240 V AC	**0007 050.04**
Protection "ZONE 2"		

Characteristics

		DIN-VDE	UL	CSA	NFC-UTE
Wire size	Solid wire	0-4 mm²			0-4 mm²
	Stranded wire	0-4 mm²			0-4 mm²
Current	A	26			30
Rated wire size		4 mm²			2.5 mm²

Other characteristics

Wire stripping lenght	DIA. screwdriver	Torque	Protection
8,5 mm	4 mm	0,4-0,6 Nm	IP 20
.33"	.157"	3.5-5.3 lb.in	NEMA 1

Components characteristics

Type	Max. operating voltage DC (V)	Max. operating voltage AC (V)	Max. impulse current with an 8/20 µs current wave (A)	Varistor voltage at 1 mA test current min. (V)	Varistor voltage at 1 mA test current max. (V)	Peak clamping voltage with 8/20 µs wave Vc (V)	Peak clamping voltage with 8/20 µs wave Ip (A)	Capacitance (pF)
M 4/8.D2.SF.PV 24/15	26	20	500	29.5	36.5	64	5	3500
M 4/8.D2.SF.PV 35/24	38	30	500	42	52	89	5	2500
M 4/8.D2.SF.PV 48/35	56	40	500	61	75	123	5	1800
M 4/8.D2.SF.PV 165/110	180	140	2500	198	242	360	25	480
M 4/8.D2.SF.PV 270/130	300	230	2500	324	396	595	25	300
M 4/8.D2.SF.PV 508/240	560	420	2500	610	748	1120	25	220

Note: Average power dissipation of transient not to exceed 0.4 W.

Accessories

		Type		P/N
1	Rail ⊏ 32 x 15	**PR1 Z2**		**0163 050.04**
2	Rail ⊏ 35 x 7.5 x 1	**PR3 G2**		**0164 800.03**
3	Rail ⊔ 35 x 15 x 2.3	**PR4**		**0168 500.12**
4	Rail ⊔ 35 x 15 x 1.5	**PR5**		**0168 700.22**
5	High end stop (all rails)	**BAMH** ⊏ ⊔	th.9.1 mm	**0114 836.00**
		BAEH V0 ⊏	th. 12 mm	**0116 934.04**
		BADH V0 ⊔	th. 12 mm	**0116 900.27**
6	End plate	**FEM8D2S**		**0116 913.07**
7	Test socket	**AL2** (1)	DIA. 2 mm	**0163 043.21**
		AL3 (1)	DIA. 3 mm	**0163 261.00**
		AL4 (1)	DIA. 4 mm	**0163 262.01**
8	Test plug	**FC2**	DIA. 2 mm	**0007 865.26**
		FC4	DIA. 4 mm	**0167 860.01**
9	Jumper bar preassembled	**BJM8** (1)	2 poles	**0168 520.05**
		BJM8 (1)	3 poles	**0168 521.22**
		BJM8 (1)	4 poles	**0168 522.23**
		BJM8 (1)	5 poles	**0168 523.24**
		BJM8 (1)	10 poles	**0168 974.00**
	Jumper bar preassembled (with IP20 protection)	**BJMI8** (1)	2 poles	**0176 669.16**
		BJMI8 (1)	3 poles	**0176 670.13**
		BJMI8 (1)	4 poles	**0176 671.00**
		BJMI8 (1)	5 poles	**0176 672.01**
		BJMI8 (1)	10 poles	**0176 673.02**

		Type		P/N
10	Butt strap	**EL6**		**0168 400.16**
11	Comb	**PC81**	10 poles	**0173 523.11**
12	Coupling rod	**TGA8**	2 poles	**0168 672.11**
			3 poles	**0168 673.12**
			4 poles	**0168 674.13**
13	TRUARC ring	**ANT**		**0168 675.14**
14	5 x 20 and 5 x 25 fuse 250V	**FU520**	1.6 A	**0168 831.21**
			2 A	**0168 832.22**
			2.5 A	**0168 833.23**
			4 A	**0168 834.24**
			6.3 A	**0168 835.25**
	5 x 25 fuse	**FU525**	1.6 A	**0167 546.22**
			2 A	**0167 547.23**
			2.5 A	**0167 548.04**
			4 A	**0167 549.05**
			6.3 A	**0167 550.02**
15	Neutral cartridge	**CN5**		**0168 804.07**
16	Screening continuity	**CBD2S**		**0178 408.14**

R See marking section

Other accessories see accessories section

(1) These accessories can be used on the lower connection only.