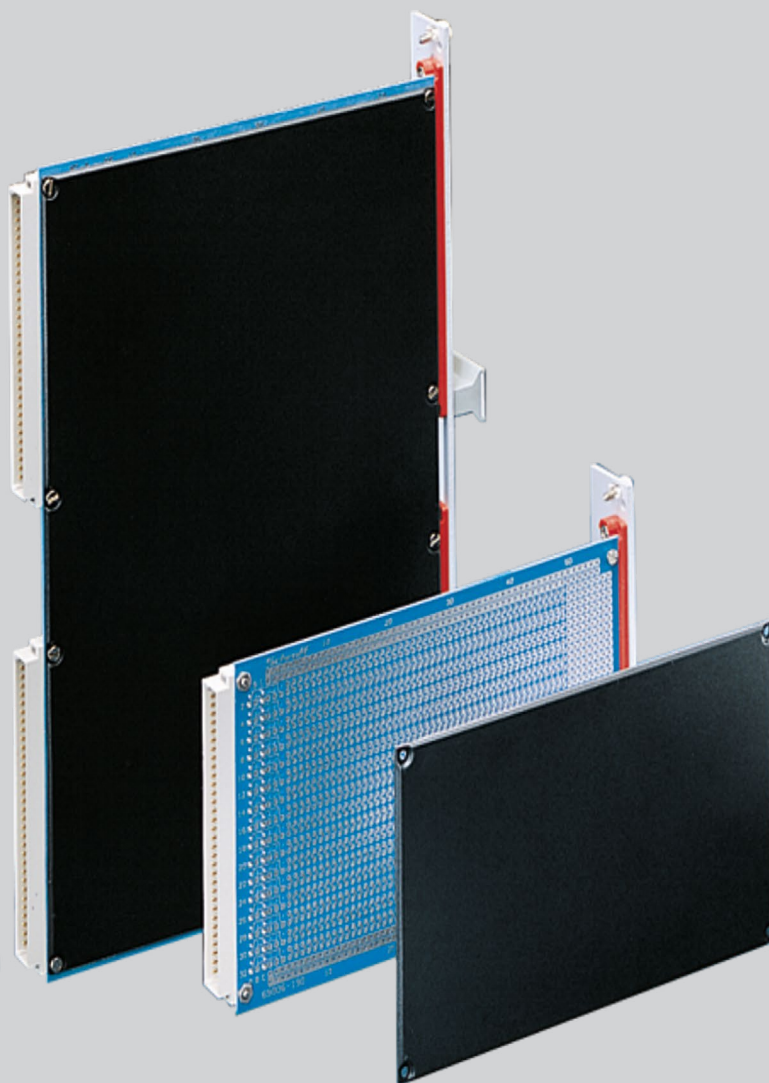




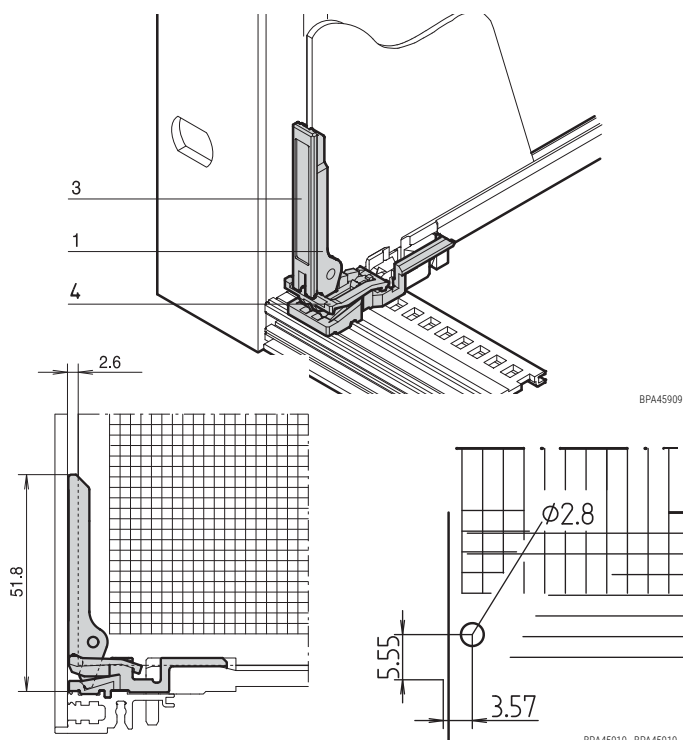
CONNECT AND PROTECT

PCB Accessories

10/2024

Modules – PCB accessories

PCB HANDLE TYPE C



- For europacPRO, multipacPRO, ratiopacPRO, propacPRO and compacPRO
- Mounted behind the front panel
- Insertion and extraction
- Can be labelled
- In accordance with IEC 60297-3-102

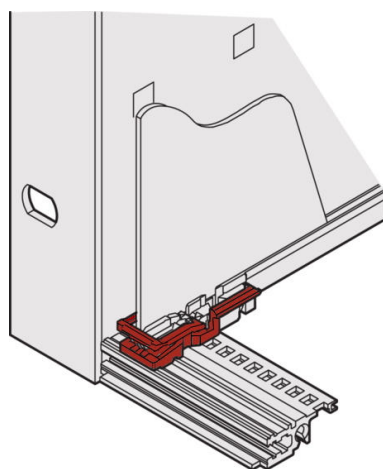
ORDER INFORMATION

Item	Description	Material	Colour	Qty/PU	Part no.
1	PCB handle	PBT, UL 94 V-0	red	10	24560-378
3	Identification strip (1 sheet = 438 pieces)	Polyester film, self-adhesive	white/matt	1	60817-228

NOTE

- Minimum spacing of guide rail 3 HP
- For board thickness 1.6 mm
- Please order PCB retainer separately
- Can only be used together with guide rail for accessories

PCB RETAINER TYPE C



- For europacPRO, multipacPRO, ratiopacPRO, propacPRO and compacPRO
- Can also be used without PCB handle
- Application on top and bottom horizontal rail with "accessory" type guide rail

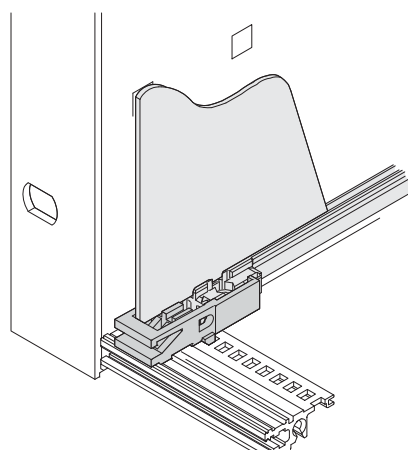
ORDER INFORMATION

Item	Description	Material	Colour	Qty/PU	Part no.
1	PCB retainer	PBT, UL 94 V-0	red	10	24560-377

NOTE

- Minimum spacing of guide rail 3 HP

PCB RETAINER TYPE A



- For fixing PCB
- Can also be used without PCB handle
- Application on top and bottom horizontal rail
- Suitable for PCB handles
- For the combination of EuropacPRO guide rails and the older type PCB handle

ORDER INFORMATION

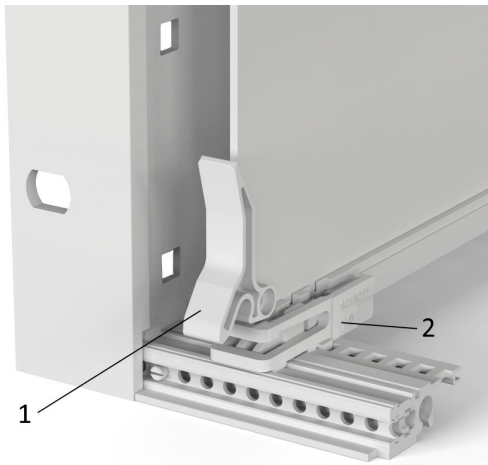
Description	Material	Colour	Qty/PU	Part no.
PCB retainer A	PPO, UL 94 V-0	red	10	24560-381

NOTE

- Groove width 2 mm

Modules – PCB accessories

PCB HANDLE TYPE A



- Insertion an extraction function
- For PCB thickness 1,6mm
- Suitable for PCB retainer 24560-381
- For the combination of EuropacPRO guide rails and the older type PCB handle

ORDER INFORMATION

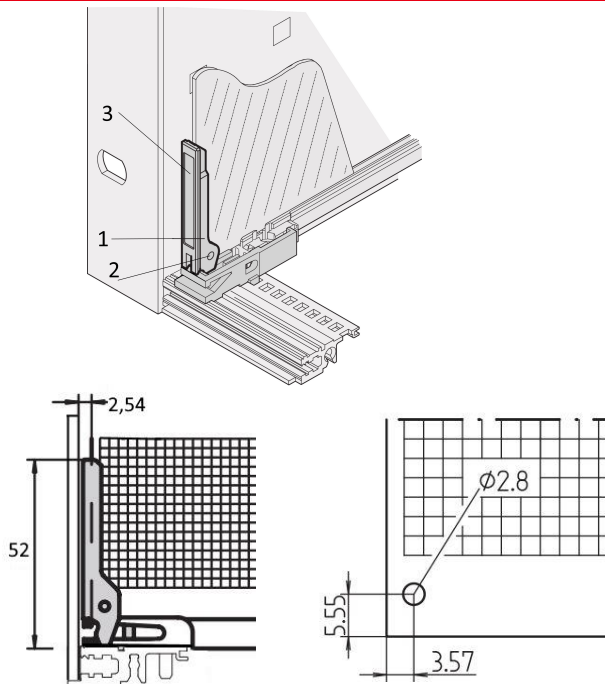
Description	Material	Colour	Qty/PU	Part no.
PCB Handle (1)	PC, UL 94 V-0	red	1 piece SPQ 10	60817-055

Retainer (2), 24560-381

NOTE

- Groove width 2 mm

PCB HANDLE TYPE A



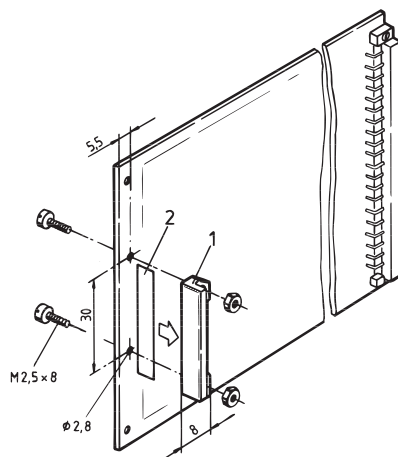
- For the combination of EuropacPRO guide rails and the older type PCB handle
- Can be mounted behind the front panel
- Insertion an extraction function
- Can be labelled
- In accordance with IEC 60297-3-102

ORDER INFORMATION

Item	Description	Material	Colour	Qty	Part no.
1	PCB handle	PC; UL 94 V-0	red	1 piece (SPQ 10)	60817-096
2	Pivot pin	Stainless steel		100	21100-671
3	Identification strip	Polyester film, self-adhesive	silver	100	21100-672

SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity: Please order at least 10 pieces PCB handles or a multiple

PCB HANDLE, CAN BE BOLTED/RIVETED



- For board thickness 1.6 mm

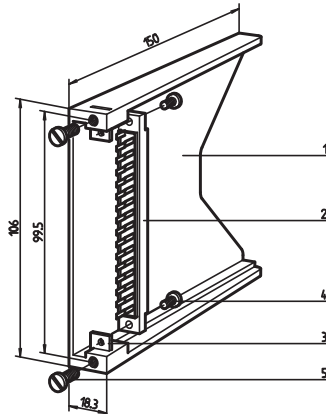
ORDER INFORMATION

Item	Description	Material	Colour	Qty	Part no.
1	PCB handle, can be bolted/riveted	PC	yellow	1 piece (SPQ 10)	60817-050
2	PCB handle, can be bolted/riveted	PC	red	1 piece (SPQ 10)	60817-051
1	PCB handle, can be bolted/riveted	PC	green	1 piece	60817-052
Identification strip Item 2, carton, white, 37.5 x 7 x 0.15 mm, 1 sheet = 105 pieces					69000-969
PoziDrive panhead screw M2.5 x 8, St, nickel-plated, PU 100 pieces					21101-069
Hexagonal nut A 2.5, nickel-plated, PU 100 pieces					21100-144

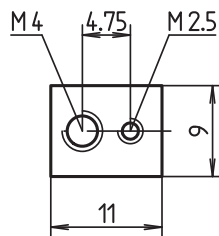
SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity: Please order at least 10 pieces PCB handles or a multiple

Modules – PCB accessories

PCB POCKET



Retention bracket (DIN 41612)



- Accepts PCBs in euroboard format, 100 x 160 mm
- For female connectors to EN 60603 (DIN 41612)

DELIVERY COMPRISES (kit)

Item	Qty	Description
1	1	PCB pocket, PBT (P), grey, UL 94 V-0
3	2	Retention bracket, St, 2 mm, nickel-plated
4	2	Cheesehead screw M2.5 x 6, St, nickel-plated
5	2	Cheesehead screw M4 x 12, St, nickel-plated

ORDER INFORMATION

Item	Description	Material	Colour	Qty/PU	Part no.
1	PCB pocket	PBT (P)	grey	1	20800-032

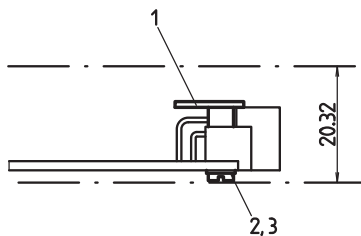
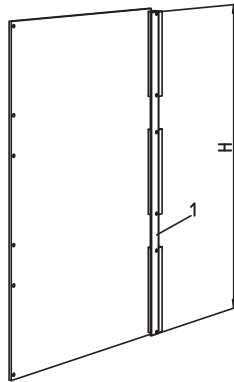
NOTE

- Connector (item 2) see page 11.2

LKA42605

LKA42606

PCB STRENGTHENING (9 U)



- Protects large PCBs from bending
- Creates an additional crossbar (corresponding to IEEE recommendations, P 896, Nubus, Multibus® II etc.) that links all connectors mechanically
- Fixing points match connectors to EN 60603 (DIN 41612), types B, R, C and D

DELIVERY COMPRISES (kit)

Item	Qty	Description
1	1	PCB strengthening, Al extrusion, anodised, cut edges plain; separator, stainless steel, riveted on
2	6	Cheesehead screw M 2.5 x 12, St, nickel-plated
3	6	Washer 2.6, St, nickel-plated

ORDER INFORMATION

Description	Height H mm	Part no.
For 9 U PCBs	361.6	20809-441

LKA42609

LKA42593

PCB COVERS



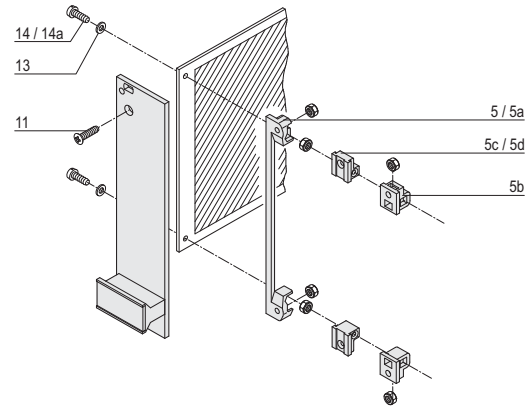
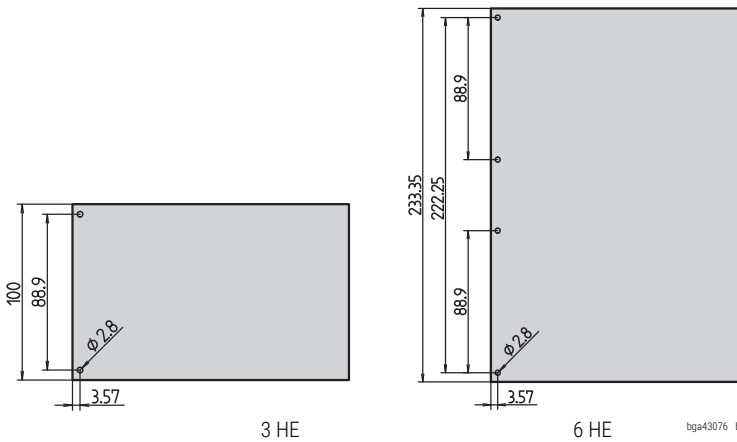
- Covers to protect solder side of board, see page 7.62

Modules – PCB accessories

INDIVIDUAL COMPONENTS PCB SUPPORT FOR STATIC TRAPEZIFORM HANDLE

FIXING PARTS FOR EXTRACTOR HANDLES IN KEY FORM 2

Drill hole dimensions on PCB



bga43076 bga43077

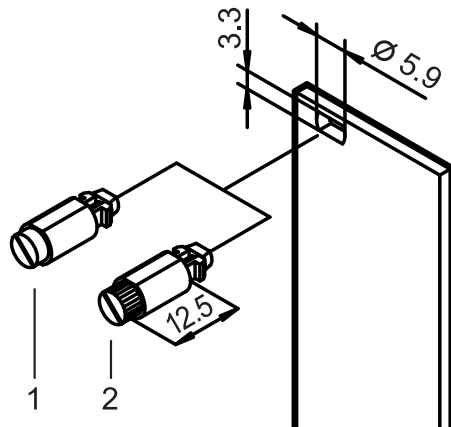
bza46430

Fixing parts	Item		Required quantity		Qty/PU	Part no.		
			3 U	6 U				
PCB bracket 4 clearance holes for front panel/PCB fixing, 4 recesses for hexagon nuts; PBT, UL 94 V-0, red	5	 AZA45177	1	2	1 piece (SPQ 10) ¹⁾	60807-011		
PCB bracket 4 threads M2.5 for front panel/PCB fixing, PBT, UL 94 V-0, grey, 1 piece	5a		1	2	1 piece (SPQ 10) ¹⁾	60807-211		
PCB bracket Clearance hole for front panel fixing, with recess for hexagon nut, drill hole for self-tapping screw for PCB fixing, PBT, UL 94 V-0, grey, 1 piece	5b	 AZA45177	2	4	1 piece (SPQ 10) ¹⁾	60807-183		
PCB bracket 2 threads M2.5 for front panel/PCB fixing, die-cast zinc, 1 piece	5c	 06707050	2	4	1 piece (SPQ 10) ¹⁾	60807-181		
PCB bracket 1 x thread M2.5 for front panel fixing and 1 x clearance hole Ø 2.6 mm for PCB fixing, die-castzinc, 1 piece	5d	 06707050	2	4	1 piece (SPQ 10) ¹⁾	60807-203		
Raised Pozidrive countersunk screw M2.5 × 8, St, nickel-plated	11	 06702056	1	1	2	100	21100-429	
Washer 2.7 DIN 125, St, nickel-plated, 100 pieces	13	 AZA46586	2	2	4	4	100	21100-721
Pozidrive panhead screw M2.5 × 8, nickel-plated steel if using item 13	14	 06702057	2	2	4	4	100	21101-069
Panhead screw, self-tapping 2.5 x 8, St, zinc-plated for items 5 and 5b	14a		1	1	–	–	100	21100-710

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Modules – Assembly parts

QUICK-RELEASE FASTENERS



06702062

- Vibration and shock proof
- 1/4 rotary lock with defined stop
- Detection of fastening position through slot position

DELIVERY COMPRISES

Qty	Description
1	Locking pin, St, locking, Zn die-cast
1	Press-in sleeve, POM

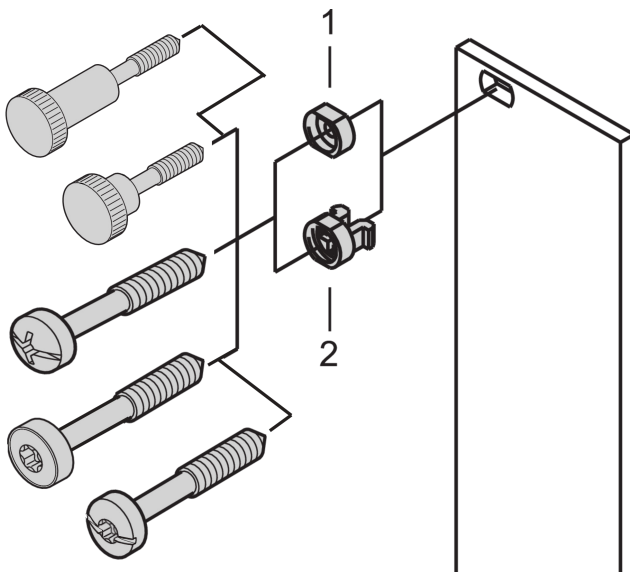
ORDER INFORMATION

Item	Description	Qty/PU	Part no.
1	With slotted head, grey	100	21101-847
1	With slotted head, black	100	21101-848
2	With knurled and slotted head, grey	100	21101-849
2	With knurled and slotted head, black	100	21101-850

NOTE

Quick-release fasteners: mounting without threaded insert

SLEEVES



ORDER INFORMATION

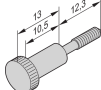
Item	Description	Application	Qty/PU pieces	Part no.
2	Plastic sleeve, PA, grey	for unshielded front panels	100	21100-464
2	Plastic sleeve, PA, black	for unshielded front panels	100	21100-591
1	Metal sleeve, brass, nickel-plated	for shielded front panels	10	21100-659
1	Metal sleeve, brass, nickel-plated	for shielded front panels	100	21100-660
1	Metal sleeve, brass, black	for shielded front panels	10	21100-885
1	Metal sleeve, brass, black	for shielded front panels	100	21100-886
1	Metal sleeves, stainless steel	for shielded front panels	10	21100-661
1	Metal sleeves, stainless steel	for shielded front panels	100	21100-662

NOTE

- Metal sleeves must be pressed-in into front panels
- Sleeve does not fit 2 HP wide front panels

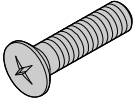
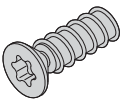
Modules – Assembly parts

COLLAR SCREWS

	Description	Material	Torque	Dimension	Qty/PU	Part no.	
	Collar screw with philips drive/slot	For mounting of front panels when using threaded inserts	max. 0,3 Nm	St, nickel-plated	M2.5 x 12.3	100	21102-026
	Collar screw with pozi drive/slot	For mounting of front panels when using threaded inserts	max. 0,3 Nm	St, nickel-plated	M2.5 x 12.3	100	21101-101
			max. 0,3 Nm	Stainless steel	M2.5 x 12.3	100	21101-906
			max. 0,3 Nm	St, zinc-plated, black	M2.5 x 12.3	100	21101-102
	Collar screw with Torx 8 /slot	For mounting of front panels when using threaded inserts	max. 0,3 Nm	St, nickel-plated	M2.5 x 12.3	100	21101-976
	Collar screw Torx 8	For mounting of front panels when using threaded inserts	max. 0,3 Nm	St, nickel-plated	M2.5 x 12.3	100	21101-782
			max. 0,3 Nm	St, zinc-plated, black	M2.5 x 12.3	100	21101-783
	 Collar screw with knurled head	For mounting of front or side hinged front panels when using threaded inserts or slides (page 6.68)	max. 0,3 Nm	Brass, nickel-plated	M2.5 x 12.3	100	21101-749
	 Collar screw with knurled head	For mounting of front or side hinged front panels when using threaded inserts or slides (page 6.68) For horizontal rails with long lip (H-LL or R_LL)	max. 0,3 Nm	Brass, nickel-plated	M2.5 x 12.3	100	21101-909

Modules – Assembly parts

COUNTERSUNK SCREWS

Description		Material	Dimension	Qty/PU	Part no.
 az245182	Pozidrive countersunk screw	St, nickel-plated	M2.5 x 6	100	21100-515
		St, nickel-plated	M2.5 x 12	100	21100-507
 06702056	Torx countersunk screw	St, zinc-plated	M4 x 5	100	24560-139
		St, zinc-plated	M4 x 14	100	24560-145
 06702056	Raised Pozidrive countersunk screw	St, nickel-plated	M2.5 x 8	100	21100-429
		St, nickel-plated	M2.5 x 10	100	21100-500
		St, zinc-plated, black	M2.5 x 10	100	21100-649
		St, nickel-plated	M3 x 8	100	21100-542
 06707057	Torx countersunk screw, self-tapping	St, zinc-plated	2.5 x 7.7	100	24560-158

SCREWS FOR PLUG-IN UNITS

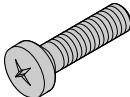
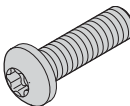
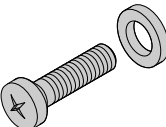
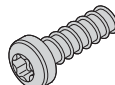


ORDER INFORMATION

Description	Qty/PU	Part no.
Slotted flathead screw, 6-32 UNC x 6	100	21100-712

Modules – Assembly parts

PANHEAD SCREWS

Description		Material	Dimension	Qty/PU	Part no.
	Pozidrive panhead screw	St, nickel-plated	M2.5 x 5	100	21101-314
		St, nickel-plated	M2.5 x 6	100	21101-219
		St, nickel-plated	M2.5 x 8	100	21101-069
		St, nickel-plated	M2.5 x 10	100	21101-220
		St, nickel-plated	M2.5 x 12	100	21101-221
		St, nickel-plated	M2.5 x 16	100	21101-222
06702057		St, zinc-plated	M5 x 12	100	21100-788
	Torx panhead screw	St, zinc-plated	M2.5 x 6	100	24560-159
		St, nickel-plated	M2.5 x 7	100	24560-147
		St, nickel-plated	M2.5 x 10	100	24560-148
		St, nickel-plated	M2.5 x 12	100	24560-161
		St, nickel-plated	M2.5 x 14	100	24560-162
		St, zinc-plated	M4 x 6	100	24560-135
		St, zinc-plated	M4 x 6	100	24560-151
		St, zinc-plated	M4 x 10	100	24560-155
AZA45940		St, zinc-plated	M4 x 14	100	24560-130
	Screw + securing washer (PA)	St, nickel-plated	M2.5 x 12	100	21100-777
		06702051			
	Torx panhead screw, self-tapping	St, zinc-plated, black	2.5 x 7.3	100	24560-157
		06707058			
		St, zinc-plated	2.5 x 9.3	100	24560-141

Modules – Assembly parts

GRUB SCREWS

	Description	Material	Dimension	Qty/PU	Part no.
 	Grub screw	Stainless steel	M2.5 x 9, Torx 8	100	21102-980
		St, nickel-plated	M2.5 x 8	100	21100-276
		St, zinc-plated	M3.0 x 8	100	21100-646

WASHERS

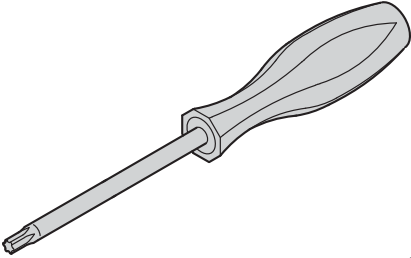
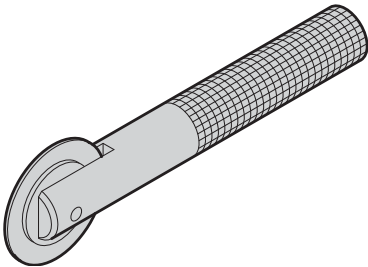
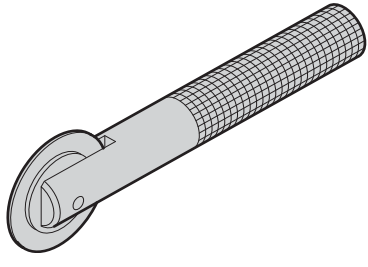
	Description	Material	Dimension	Qty/PU	Part no.
  	Washer	Plastic, PA	2.7 x 5 x 1	100	21101-121
		Plastic, PA	2.8 x 6,3 x 2	100	21101-964
		St, nickel-plated	A2.7 DIN 125	100	21100-721
	Shakeproof washer	St, nickel-plated	A 2.6	100	21100-142

NUTS

	Description	Material	Dimension	Qty/PU	Part no.
	Hexagon nut	St, nickel-plated	M2.5	100	21100-144
	Square nut	St, nickel-plated	M2.5	100	21100-359
	Square nut	St, zinc-plated	M4	100	24560-140

Modules – Assembly parts

ASSEMBLY TOOLS

ORDER INFORMATION					
Description	Application	Dimension	Qty/PU	Part no.	
 AZA45925	Torx screwdriver	For M2.5 screw	T8	1	64560-026
		For M3 screw	T10	1	64560-230
		For M4 screw	T20	1	64560-026
 azb45938	Assembly tool	Exclusively to fix stainless steel EMC gaskets in horizontal rails	–	1	24560-271
 azb45937	Assembly tool	To fix stainless steel EMC gaskets on front panels with lateral slot	–	1	24560-270

NOTE

- Assembly tool to insert keying/coding pegs in guide rails is available on request

MEASURING TAPE



- Measuring tape with cm, U-, HP-division (length 2 m)
- Plastic housing, metal measuring tape with automatic collection

ORDER INFORMATION		
Description		Part no.
Measuring tape	1	89009-001

North America

Warwick, RI, USA

Tel +1.401.738.1722

San Diego, CA, USA

Tel +1.858.740.2400

Europe, Middle East & India

Straubenhardt, Germany

Tel +49 7082 794 0

Betschdorf, France

Tel +33 3 88 90 64 90

Warsaw, Poland

Tel +48 22 209 98 35

Hemel Hempstead,

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