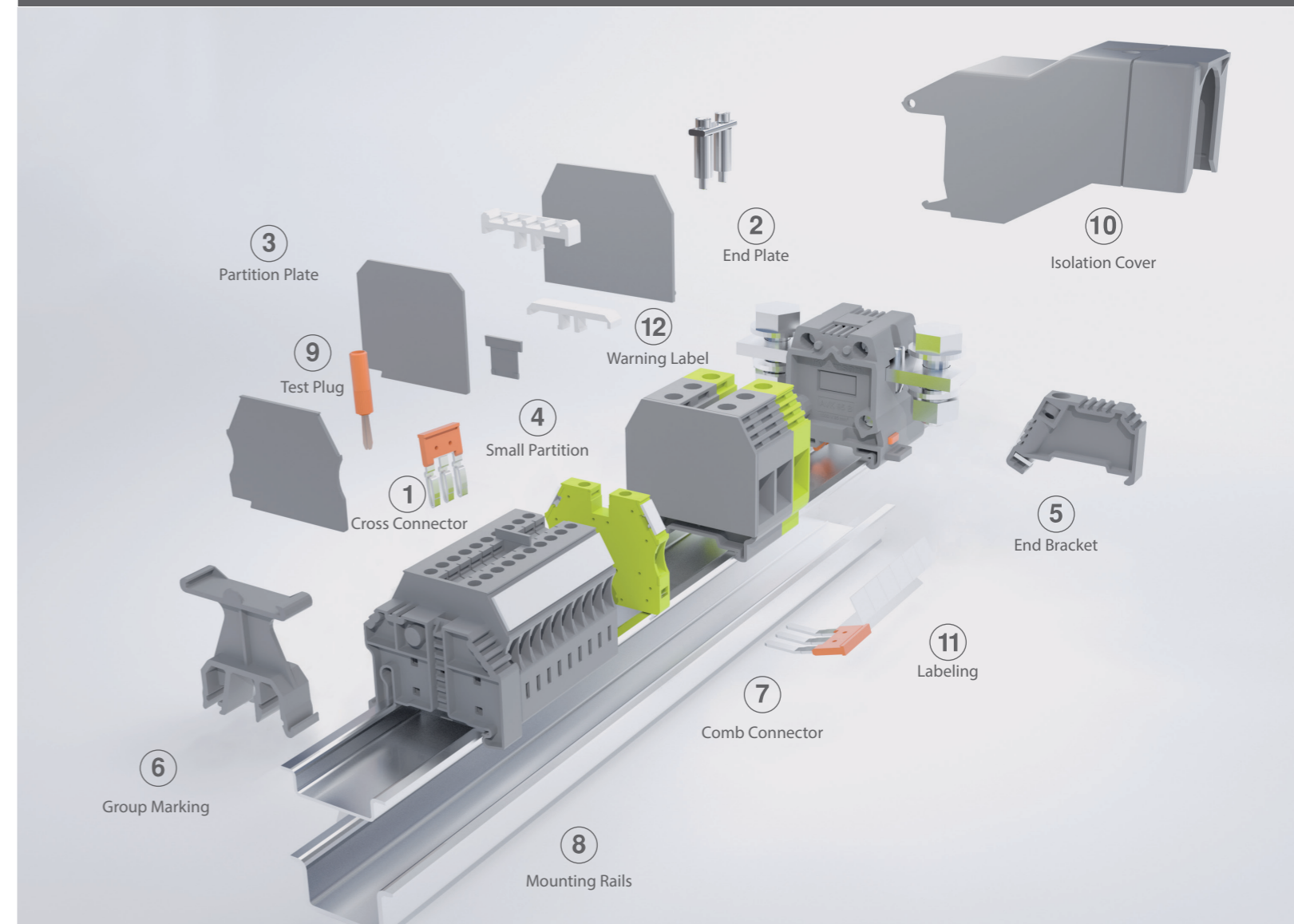




***Klemsan***<sup>®</sup>

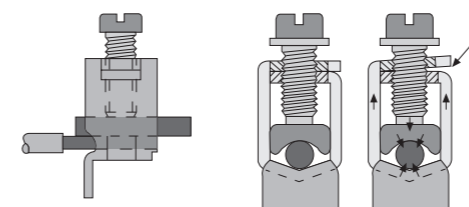
A decorative graphic on the left side of the page, consisting of several overlapping geometric shapes. It includes a large dark grey parallelogram, a smaller orange parallelogram, and a white parallelogram, all with sharp, angular edges.

**SHORT FORM CATALOGUE**



## Connection Systems

**SCREW CONNECTION:** This is **the most popular** of all known methods of connection. Screw connection refers to any connection in which the conductor is stripped of its insulation and clamped without any special preparation. Klemsan screw clamp system is built in protection against loosening.



When the screw is tightened, the resultant pressure pulls apart both halves of the clamping yoke. This generates a particularly high locking action on the screw. These clamping systems provide excellent vibration resistance.

	<b>AVK 2,5</b> Width: 5 mm 304 120	<b>AVK 2,5 RD</b> Width: 5 mm 304 200	<b>AVK 4</b> Width: 6 mm 304 130	<b>AVK 4 RD</b> Width: 6 mm 304 210
<b>Electrical Ratings</b>	750 V ~ / 24 A / 2,5 mm <sup>2</sup> 750 V ~ / 24 A / 2,5 mm <sup>2</sup> 600 V ~ / 20 A / AWG 26 - 12 630 V ~ / 23 A	750 V ~ / 24 A / 2,5 mm <sup>2</sup> 750 V ~ / 24 A / 2,5 mm <sup>2</sup> 600 V ~ / 20 A / AWG 26 - 12 630 V ~ / 23 A	750 V ~ / 32 A / 4 mm <sup>2</sup> 750 V ~ / 32 A / 4 mm <sup>2</sup> 600 V ~ / 30 A / AWG 26 - 10 630 V ~ / 30,5 A	750 V ~ / 32 A / 4 mm <sup>2</sup> 750 V ~ / 32 A / 4 mm <sup>2</sup> 600 V ~ / 30 A / AWG 26 - 10 630 V ~ / 29 A
<b>Cross Connection</b>	UK 2,5/2-3-4-10-16-20-50	UK 2,5/2-3-4-10-16-20-50	UK 4/2-3-4-10-20-50	UK 4/2-3-4-10-50
<b>End Plate</b>	NPP 2,5 / APP 2,5-10	NPP 2,5 - 10 / APP 2,5-10	NPP 2,5 / APP 2,5-10	NPP 2,5 - 10 / APP 2,5-10
<b>Small Partition</b>	AD 1		AD 1	
<b>End Bracket</b>	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Group Marking</b>	GE - GE 2 - ME - ME 3	GE - GE 3 - ME - ME 3	GE - GE 2 - ME - ME 3	GE - GE 2 - ME - ME 3
<b>Comb Connector</b>	TKO 2,5 / 2-3-4-10	TKO 2,5 / 2-3-4-10	TKO 4 / 2-3-4-10	TKO 4 / 2-3-4-10
<b>Marking Tags</b>	DB 10/5 - DG 10/5 - DG 10/5T *ETS + 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T *ETS + 11.2 Marking Strip	DB 10/6 - DG 10/6 - DG 10/6T *ETS + 11.2 Marking Strip	DB 10/6 - DG 10/6 - DG 10/6T *ETS + 11.2 Marking Strip
<b>Mounting Rails</b>	MR 35	MR 35	MR 35	MR 35

\*Please refer to page:40

	<b>AVK 6</b> Width: 8 mm 304 140	<b>AVK 10</b> Width: 10 mm 304 150	<b>AVK 16 RD</b> Width: 12 mm 304 240	<b>AVK 25 RD</b> Width: 12 mm 304 290
<b>Electrical Ratings</b>	630 V ~ / 41 A / 6 mm <sup>2</sup> 630 V ~ / 41 A / 6 mm <sup>2</sup> 600 V ~ / 50 A / AWG 26 - 8 630 V ~ / 41 A	630 V ~ / 57 A / 10 mm <sup>2</sup> 630 V ~ / 57 A / 10 mm <sup>2</sup> 600 V ~ / 65 A / AWG 16 - 6 630 V ~ / 57 A	750 V ~ / 76 A / 16 mm <sup>2</sup> 750 V ~ / 76 A / 16 mm <sup>2</sup> 600 V ~ / 80 A / AWG 12-4 630 V ~ / 76 A	750 V ~ / 101 A / 25 mm <sup>2</sup> 600 V ~ / 100 A / AWG 12-2
<b>Cross Connection</b>	UK 6 / 2-3-4-10	UK 10 / 2-3-4-10	UK 16 / 2-3-4-10	UK 16 / 2-3-4-10
<b>End Plate</b>	NPP 2,5 / APP 2,5-10	NPP 2,5 / APP 2,5-10	NPP / AVK 16 RD APP / AVK 16 RD	NPP / AVK 25 RD
<b>Small Partition</b>	AD 1	AD 1		
<b>End Bracket</b>	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Group Marking</b>	GE - GE 2 - ME - ME 3	GE - GE 2 - ME - ME 3	GE - GE 3 - ME - ME 3	GE - GE 3 - ME - ME 3
<b>Comb Connector</b>	TKO 6 / 2-3-4-10	TKO 10 / 2-3-4-10		
<b>Marking Tags</b>	DG 10/8 *ETS + 11.2 Marking Strip	DG 10/10 *ETS + 11.2 Marking Strip	DG 10/10 *ETS + 11.2 Marking Strip	DG 10/10 *ETS + 11.2 Marking Strip
<b>Mounting Rails</b>	MR 35	MR 35	MR 32 - 35	MR 32 - 35

	<b>AVK 35 RDS</b> Width: 16 mm 304 580	<b>AVK 35 IRDS</b> Width: 16 mm 304 590	<b>AVK 50</b> Width: 20 mm 304 330	<b>AVK 70 RD</b> Width: 22 mm 304 490
<b>Electrical Ratings</b>	1000 V ~ / 125 A / 35 mm <sup>2</sup> 1000 V ~ / 125 A / 35 mm <sup>2</sup> 600 V ~ / 115 A / AWG 10-2	1000 V ~ / 125 A / 35 mm <sup>2</sup> 1000 V ~ / 125 A / 35 mm <sup>2</sup> 600 V ~ / 115 A / AWG 10-2	1000 V ~ / 150 A / 50 mm <sup>2</sup> 1000 V ~ / 150 A / AWG 6-1/0	1000 V ~ / 192 A / 70 mm <sup>2</sup> 600 V ~ / 175 A / AWG 6-2/0
<b>Cross Connection</b>	UK 35 RDS / 2-3-4-10	UK 35 RDS / 2-3-4-10	UK 50 / 2-3-4	UK 70 / 2-3-4
<b>End Bracket</b>	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 6 - KD 7	KD 6 - KD 7
<b>Group Marking</b>	GE - GE 3 - ME - ME 3	GE - GE 3 - ME - ME 3	GE - ME 3	GE - ME 3
<b>Marking Tags</b>	DG 10/10 *ETS + 11.2 Marking Strip	DG 10/10 *ETS + 11.2 Marking Strip	KOIP SW 11.2 Marking Strip	KOIP SW 11.2 Marking Strip
<b>Mounting Rails</b>	MR 35	MR 35	MR 32 - 35	MR 35

## High Current Terminals

	<b>AVK 95</b> Width: 25 mm 304 340	<b>AVK 150</b> Width: 31 mm 304 350	<b>AVK 240</b> Width: 36 mm 304 360	<b>AVK EK6</b> Width: 6 mm 304 370
<b>Electrical Ratings</b>	1000 V ~ / 232 A / 95 mm <sup>2</sup> 600 V ~ / 230 A / AWG 2-4/0 1000 V ~ / 217 A	1000 V ~ / 309 A / 150 mm <sup>2</sup> 600 V ~ / 270 A / AWG 2-300 kcmil 1000 V ~ / 281 A	1000 V ~ / 415 A / 240 mm <sup>2</sup> 600 V ~ / 370 A / AWG 2/0-500 kcmil 1000 V ~ / 380 A	
<b>Cross Connection</b>	UK 95 / 2-3-4	UK 150 / 2-3-4	UK 240 / 2-3-4	
<b>End Bracket</b>	KD 6	KD 6	KD 6	
<b>Group Marking</b>	GE	GE	GE	
<b>Marking Tags</b>	KOIP SW 11.2 Marking Strip	KOIP SW 11.2 Marking Strip	KOIP SW 11.2 Marking Strip	
<b>Mounting Rails</b>	MR 32-35	MR 32-35	MR 32-35	

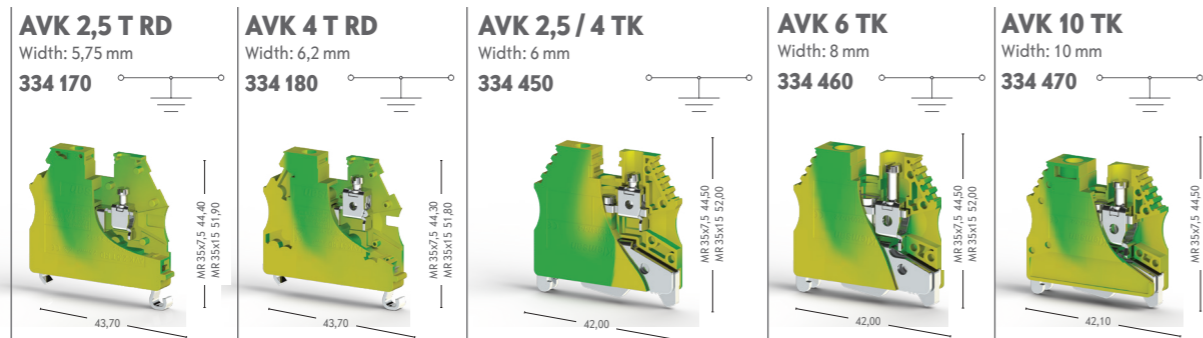
\*EK6 terminals enables getting extensions from high-current terminals using thin cross-sectioned cables.

\*Please refer to page:40



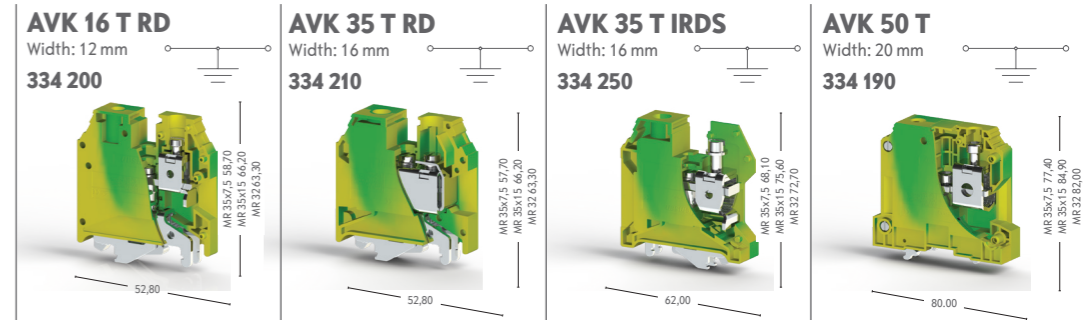
Electrical Ratings	AVK 95 B Width: 40 mm 304 300	AVK 150 B Width: 48 mm 304 310	AVK 240 B Width: 53 mm 304 320
CE (EN 60947-7-1)	1000 V ~ / 232 A / 95 mm <sup>2</sup>	1000 V ~ / 309 A / 150 mm <sup>2</sup>	1000 V ~ / 415 A / 240 mm <sup>2</sup>
Cross Connection	UK 95 / 2-3-4	UK 150 / 2-3-4	UK 240 / 2-3-4
Isolation Cover	KKB 95	KKB 150	KKB 240
End Bracket / Group Marking	KD 6 ME	KD 6 ME	KD 6 ME
Marking Tags	DG 10/10	DG 10/10	DG 10/10
Mounting Rails	MR 32-35	MR 32-35	MR 32-35

## Screw Type Earth Terminals



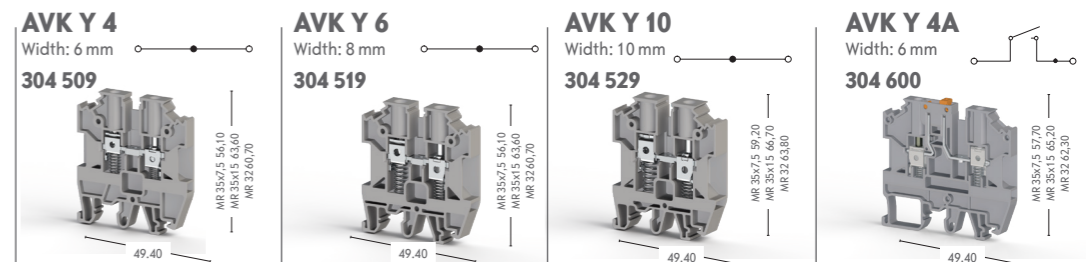
Electrical Ratings	AVK 2,5 T RD Width: 5,75 mm 334 170	AVK 4 T RD Width: 6,2 mm 334 180	AVK 2,5 / 4 TK Width: 6 mm 334 450	AVK 6 TK Width: 8 mm 334 460	AVK 10 TK Width: 10 mm 334 470
CE (EN 60947-7-1)	- V / ~ A / 2,5 mm <sup>2</sup>	- V / ~ A / 4 mm <sup>2</sup>	- V / ~ A / 4 mm <sup>2</sup>	- V / ~ A / 6 mm <sup>2</sup>	- V / ~ A / 10 mm <sup>2</sup>
VDE (IEC 60947-7-2)	- V / ~ A / 2,5 mm <sup>2</sup>	- V / ~ A / 4 mm <sup>2</sup>			
UL / CSA	- V / ~ A / AWG 26-12	- V / ~ A / AWG 26-10	300 V / ~ A / AWG 26-10	300 V / ~ A / AWG 26-8	300 V / ~ A / AWG 16-6
ATEX	630 V	630 V			
Group Marking	GE - GE 2 - ME	GE - GE 2 - ME	GE - GE 2 - ME	GE - GE 3	GE - GE 3
Marking Tags	DG 10/5 - DG 10/5T - DB 10/5 *ETS + 11.2 Marking Strip	DG 10/6 - DG 10/6T - DB 10/6 *ETS + 11.2 Marking Strip	DG 10/6 - DG 10/6T - DB 10/5 *ETS + 11.2 Marking Strip	DG 10/8 - DB 10/5 *ETS + 11.2 Marking Strip	DG 10/10 - DB 10/5 *ETS + 11.2 Marking Strip
Mounting Rails	MR 35	MR 35	MR 35	MR 35	MR 35

\*Please refer to page:40



Electrical Ratings	AVK 16 T RD Width: 12 mm 334 200	AVK 35 T RD Width: 16 mm 334 210	AVK 35 T IRDS Width: 16 mm 334 250	AVK 50 T Width: 20 mm 334 190
TSE / CE (EN 60947-7-1)	- V / ~ A / 16 mm <sup>2</sup>	~ V ~ / A / 35 mm <sup>2</sup>	~ V ~ / A / 35 mm <sup>2</sup>	~ V ~ / A / 50 mm <sup>2</sup>
VDE (IEC 60947-7-1 / IEC 60947-7-2)	- V / ~ A / 16 mm <sup>2</sup>	~ V ~ / A / 35 mm <sup>2</sup>		
UL / CSA	- V / ~ A / AWG 12-4	~ V ~ / A / AWG 12-2	~ V ~ / A / AWG 10-2	~ V ~ / A / AWG 16-1/0
ATEX	630 V	630 V		800 V
Group Marking	GE - GE 3	GE - GE 2	GE - GE 2	GE
Marking Tags	DG 10/10	DG 10/10	DG 10/10	KOIP SW 11.2 Marking Strip
Mounting Rails	MR 32-35	MR 32-35	MR 32-35	MR 32-35

## Spring Loaded Terminals



Electrical Ratings	AVK Y 4 Width: 6 mm 304 509	AVK Y 6 Width: 8 mm 304 519	AVK Y 10 Width: 10 mm 304 529	AVK Y 4A Width: 6 mm 304 600
CE (EN 60947-7-1 / EN 60947-7-2)	800 V / 32 A / 4 mm <sup>2</sup>	800 V / 41 A / 6 mm <sup>2</sup>	800 V ~ / 57 A / 10 mm <sup>2</sup>	500 V ~ / 32 A / 4 mm <sup>2</sup>
Cross Connection	UK 4 / 2 - 3 - 4 - 10 - 20 - 50	UK 6 / 2-3-4-10	UK 10 / 2-3-4-10	UK 4 / 2-3-4-10-20-50
End Plate	NPP AVK Y 4 / Y 6	NPP AVK Y 4 / Y 6	NPP AVK Y 10	NPP / AVK Y 4A
End Bracket	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
Group Marking	GE - GE 2 - ME - ME 3	GE - GE 2 - ME - ME 3	GE - GE 2 - ME - ME 3	
Marking Tags	DB 10/6 - DG 10/6T 11.2 Marking Strip	DG 10/8 11.2 Marking Strip	DG 10/10 11.2 Marking Strip	DG 10/6, DG 10/6T, DB 10/6
Mounting Rails	MR 32 - 35	MR 32 - 35	MR 32 - 35	MR 32 - 35

	<b>PB 2,5 / NM</b> Width: 9 mm <b>308 029</b>	<b>PB 2,5K / NM</b> Width: 9 mm <b>308 039</b>	<b>PB 2,5T / NM</b> Width: 10 mm <b>337 010</b>	<b>PB 6 / NM</b> Width: 11 mm <b>308 009</b>
<b>Electrical Ratings</b> CE(EN 60947-7-1 / EN 60947-7-2)	800 V / 24 A / 2,5 mm <sup>2</sup>	800 V / 24 A / 2,5 mm <sup>2</sup>	- V ~ / - A / AWG 26-14	800 V / 41 A / 6 mm <sup>2</sup>
UL / CSA	600 V ~ / 20-15 A / AWG 26-14	600 V ~ / 20-15 A / AWG 26-14	- V ~ / - A / AWG 26-14	600 V ~ / 45 A / AWG 22-8
<b>Comb Connector</b>	TKO-PB 2.5 / 2-3-4-7-10	TKO-PB 2.5 / 2-3-4-7-10		TKO-PB 6 / 2-3-4-7
<b>End Plate</b>	NPP PB 2.5/NM APP / PB 2.5 NM - 6 NM	NPP PB 2.5/NM APP / PB 2.5 NM - 6 NM		NPP PB 6 NM APP / PB 2.5 NM - 6 NM
<b>End Bracket</b>	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Marking Tags</b>	DG 10/6 - DG 10/6T	DG 10/6 - DG 10/6T	DG 10/6 - DG 10/6T	DG 10/8
<b>Mounting Rails</b>	MR 32 - 35	MR 32 - 35	MR 32 - 35	MR 32 - 35
<b>Test Plug</b>		TF (Q 2,3)		

	<b>PB 6K / NM</b> Width: 11 mm <b>308 019</b>	<b>PB 6T / NM</b> Width: 11 mm <b>337 000</b>	<b>PB 25 / NM (M5)</b> Width: 18 mm <b>308 049</b>	<b>PB 25 / NM (M6)</b> Width: 18 mm <b>300 059</b>
<b>Electrical Ratings</b> CE(EN 60947-7-1 / EN 60947-7-2)	800 V / 41 A / 6 mm <sup>2</sup>	~ V ~ / - A / 6 mm <sup>2</sup>	800 V / 101 A / 25 mm <sup>2</sup>	800 V / 101 A / 25 mm <sup>2</sup>
UL / CSA	600 V ~ / 45 A / AWG 22-8	- V ~ / - A / AWG 22-8	600 V ~ / 115-85 A / AWG 26-4	600 V ~ / 115-85 A / AWG 26-4
<b>Comb Connector</b>	TKO-PB 6 / 2-3-4-7-10		TKO-PB 25 / 2	TKO-PB 25 / 2
<b>End Plate</b>	NPP / PB 6/NM APP / PB 2.5 - 6/NM		NPP PB 25/NM APP PB 25/NM	NPP PB 25/NM APP PB 25/NM
<b>End Bracket</b>	KD 3 - KD 4 - KD 7	KD 4 - KD 6 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Marking Tags</b>	DG 10/8	DG 10/8	DG 10/10	DG 10/10
<b>Mounting Rails</b>	MR 32 - 35	MR 32 - 35	MR 32 - 35	MR 32 - 35
<b>Test Plug</b>		TF (Q 4)		

	<b>CPB 6</b> Width: 9,5 mm <b>326 809</b>	<b>CPB 6 B</b> Width: 13 mm <b>326 819</b>	<b>Insulated Terminals Compatible with PB and CPB Series Terminals Blocks</b>
<b>Electrical Ratings</b> CE(EN 60947-7-1 / EN 60947-7-2)	800 V / 41 A / 6 mm <sup>2</sup>	800 V / 57 A / 10 mm <sup>2</sup>	<b>PB Series</b>
<b>Cross Connection</b>	UK 9,5/2 - 3-4-7-10	UK 13/2 - 3-4-7-10	590 012 KYK-401 0,5 - 1,5 mm <sup>2</sup> 590 013 KYK-501 0,5 - 1,5 mm <sup>2</sup> 590 021 KYK-402 1,5 - 2,5 mm <sup>2</sup> 590 022 KYK-502 1,5 - 2,5 mm <sup>2</sup> 590 030 KYK-406 4 - 6 mm <sup>2</sup> 590 031 KYK-506 4 - 6 mm <sup>2</sup>
<b>End Plate</b>	NPP CPB 6	NPP CPB 6B	<b>CPB 6 Series</b>
<b>End Bracket</b>	KD 4 - KD 6 - KD 7	KD 4 - KD 6 - KD 7	591 013 KCK-501 0,5 - 1,5 mm <sup>2</sup> 591 022 KCK-402 1,5 - 2,5 mm <sup>2</sup> 591 023 KCK-502 1,5 - 2,5 mm <sup>2</sup> 591 030 KCK-406 4 - 6 mm <sup>2</sup> 591 031 KCK-506 4 - 6 mm <sup>2</sup>
<b>Group Marking</b>	GE - GE 2 - ME	GE - GE 2 - ME	<b>CPB 6B Series</b>
<b>Marking Tags</b>	DB 5 - DG 6/5	DB 5 - DG 6/5	591 013 KCK-501 0,5 - 1,5 mm <sup>2</sup> 591 022 KCK-402 1,5 - 2,5 mm <sup>2</sup> 591 023 KCK-502 1,5 - 2,5 mm <sup>2</sup> 591 030 KCK-406 4 - 6 mm <sup>2</sup> 591 031 KCK-506 4 - 6 mm <sup>2</sup>
<b>Mounting Rails</b>	MR 32 - 35	MR 32 - 35	* You can find the ordering data of the terminals which are suitable for PB, CPB 6 and CPB 6B series as above.

	<b>AVK 2,5 CC</b> Width: 5 mm <b>324 909</b>	<b>AVK 2,5 CCT</b> Width: 5 mm <b>334 220</b>	<b>AVK 4 CE</b> Width: 6 mm <b>325 229</b>	<b>AVK 4 CC</b> Width: 6 mm <b>325 209</b>	<b>AVK 4 CCT</b> Width: 6 mm <b>334 260</b>
<b>Electrical Ratings</b> TSE / CE (EN 60947-7-1) VDE (IEC 60947-7-1 / IEC 60947-7-2) UL / CSA ATEX	750 V ~ / 24 A / 2,5 mm <sup>2</sup> 600 V ~ / 20 A / AWG 26-12 630 V ~ / 24 A	~ V ~ / A / 2,5 mm <sup>2</sup> ~ V ~ / A / AWG 26-12 630 V	500 V / 32 A / 4 mm <sup>2</sup>	500 V / 32 A / 4 mm <sup>2</sup>	~ V ~ / A / 4 mm <sup>2</sup>
<b>Cross Connection</b>	UK 2,5/2 - 3-4-10-16-20		UK 4/2 - 3-4-10	UK 4/2 - 3-4-10	
<b>End Plate</b>	NPP / AVK 2,5 CC	NPP / AVK 2,5 CCT	NPP / AVK 4 CE	NPP / AVK 4 CC	NPP / AVK 4 CCT
<b>End Bracket</b>	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Group Marking</b>	GE - ME - ME 2 - ME 3	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3
<b>Marking Tags</b>	DB 10/5 - DG 10/5 - DG 10/5T *ETS + 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T *ETS + 11.2 Marking Strip	DB 10/6 - DG 10/6 - DG 10/6T 11.2 Marking Strip	DB 10/6 - DG 10/6 - DG 10/6T *ETS + 11.2 Marking Strip	DB 10/6 - DG 10/6 - DG 10/6T *ETS + 11.2 Marking Strip
<b>Mounting Rails</b>	MR 35	MR 35	MR 35	MR 35	MR 35

\*Please refer to page:40

## Screw Type Terminals with Double Cross Connection

	<b>AVK 2,5 R</b> Width: 5 mm <b>304 409</b>	<b>AVK 2,5 RT</b> Width: 5 mm <b>334 280</b>	<b>AVK 4 R</b> Width: 6 mm <b>304 390</b>	<b>AVK 4 RT</b> Width: 6 mm <b>334 270</b>	
<b>Electrical Ratings</b>	TSE / CE (EN 60947-7-1) VDE (IEC 60947-7-1 / IEC 60947-7-2) UL / CSA ATEX	800 V / 24 A / 2,5 mm <sup>2</sup>	~ V ~ / A / 2,5 mm <sup>2</sup>	800 V / 32 A / 4 mm <sup>2</sup>	~ V ~ / A / 4 mm <sup>2</sup>
<b>Cross Connection</b>	UK 2.5/2 - 3 - 4 - 10		UK 4/2 - 3 - 4 - 10		
<b>End Plate</b>	NPP / AVK 2,5 R	NPP / AVK 2,5 RT	NPP / AVK 4 R	NPP / AVK 4 RT	
<b>End Bracket</b>	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	
<b>Group Marking</b>	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3	
<b>Marking Tags</b>	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip	DB 10/6 - DG 10/6 - DG 10/6T 11.2 Marking Strip	DB 10/6 - DG 10/6 - DG 10/6T 11.2 Marking Strip	
<b>Mounting Rails</b>	MR 35	MR 35	MR 35	MR 35	

## Screw Type Disconnect Terminals

	<b>AVK 2,5 EA</b> Width: 5 mm <b>324 949</b>	<b>AVK 2,5 CCA</b> Width: 5 mm <b>324 939</b>	<b>AVK 4 A</b> Width: 6 mm <b>304 380</b>		
<b>Electrical Ratings</b>	CE (EN 60947-7-1) VDE (IEC 60947-7-1) UL / CSA ATEX	400 V ~ / 16 A / 2,5 mm <sup>2</sup>	400 V ~ / 16 A / 2,5 mm <sup>2</sup>	500 V ~ / 20 A / 4 mm <sup>2</sup>	300 V ~ / 16 A / AWG 26-10
<b>End Plate</b>	NPP / AVK 2,5 CC	NPP / AVK 2,5 CC	NPP / AVK 4 R-A		
<b>End Bracket</b>	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7		
<b>Cross Connection</b>			UK 4/2 - 3 - 4 - 10		
<b>Group Marking</b>	GE - ME - ME 2 - ME 3	GE - ME - ME 2 - ME 3	GE - ME - ME 2 - ME 3		
<b>Marking Tags</b>	DB 10/5 - DG 10/5 - DG 10/5T *ETS + 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T *ETS + 11.2 Marking Strip	DB 10/6 - DG 10/6T		
<b>Mounting Rails</b>	MR 35	MR 35	MR 35		

## Screw Type Disconnect Terminals

	<b>AVK 4 CEA</b> Width: 6 mm <b>325 239</b>	<b>AVK 4 CCA</b> Width: 6 mm <b>325 219</b>	
<b>Electrical Ratings</b>	CE (EN 60947-7-1)	500 V ~ / 20 A / 4 mm <sup>2</sup>	500 V ~ / 20 A / 4 mm <sup>2</sup>
<b>End Plate</b>	NPP / AVK 4 CEA	NPP / AVK 4 CCA	
<b>Cross Connection</b>	UK 4/2 - 3 - 4 - 10	UK 4/2 - 3 - 4 - 10	
<b>Marking Tags</b>	DB 10/6 - DG 10/6 - DG 10/6T *ETS + 11.2 Marking Strip	DB 10/6 - DG 10/6 - DG 10/6T *ETS + 11.2 Marking Strip	
<b>Mounting Rails</b>	MR 35	MR 35	

## WGL1 Voltage Terminal Block

	<b>WGL 1</b> Width: 8 mm <b>375 790</b>	
<b>Electrical Ratings</b>	CE (EN 60947-7-1) UL / CSA	400 V ~ / 41 A / 6 mm <sup>2</sup> 300 V ~ / 50 A / AWG 20 - 8
<b>Ordering data</b>	Double Socket - Beige / Grey One Socket - Beige / Grey One Test Socket - Beige / Grey	<b>375 700 - 375 790</b> <b>375 701 - 375 791</b> <b>375 702 - 375 792</b>
<b>End Plate</b>	NPP / WGO 1	
<b>Cross Connection</b>	IZUK 6/2 - 3 - 4 - 6 - 10 WGO UAA (Disconnecting Tool)	
<b>Comb Connector</b>	TKO 6/2 - 3 - 4 - 10	
<b>Marking Tags</b>	DG 10/8 *ETS + 11.2 Marking Strip	
<b>Mounting Rails</b>	MR 32 - 35	

## WGO series Test and Disconnect Terminals

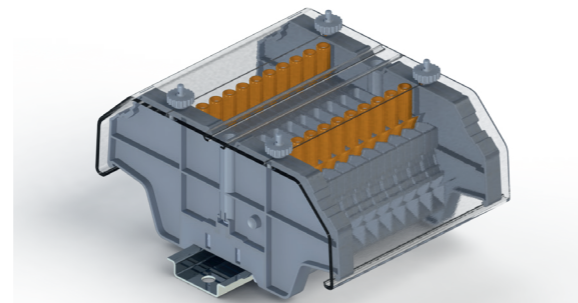
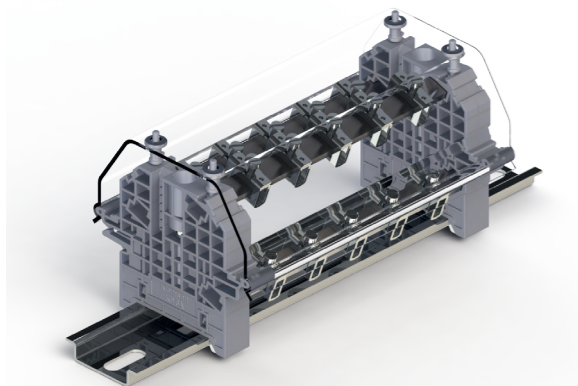
	<b>WGO 3</b> Width: 8 mm ... ..9	<b>WGO 2 N</b> Width: 10 mm <b>375 8..</b>	<b>WGO 2 IR</b> Width: 10 mm <b>375 909</b>	<b>WGO 4</b> Width: 8 mm <b>376 0...</b>	<b>WGO 1</b> Width: 8 mm ... ..9	
<b>Electrical Ratings</b>	CE (EN 60947-7-1) UL / CSA ATEX	400 V ~ / 41 A / 6 mm <sup>2</sup> 300 V ~ / 43 A / AWG 20 - 8 250 V ~ / 41 A	400 V ~ / 57 A / 10 mm <sup>2</sup>	500 V ~ / 57 A / 10 mm <sup>2</sup>	1000 V ~ / 41 A / 6 mm <sup>2</sup>	400 V ~ / 41 A / 6 mm <sup>2</sup> 300 V ~ / 50 A / AWG 20 - 8 250 V ~ / 41 A
<b>Ordering data</b>	Without Sockets - Beige / Grey One Socket - Beige / Grey Double Socket - Beige / Grey One Test Socket - Beige / Grey Double Test Socket - Beige / Grey	<b>375 600 - 375 690</b> <b>375 601 - 375 691</b> <b>375 604 - 375 694</b> <b>375 603 - 375 693</b> <b>375 602 - 375 692</b>	<b>375 800 - 375 890</b> <b>375 801 - 375 891</b> <b>375 804 - 375 894</b> <b>375 803 - 375 893</b> <b>375 802 - 375 892</b>	<b>375 900 - 375 909</b>	<b>376 090 (Grey)</b> <b>376 000 (Beige)</b>	<b>370 500 - 370 590</b> <b>370 501 - 370 591</b> <b>370 502 - 370 592</b> <b>370 503 - 370 593</b>
<b>End Plate</b>	NPP / WGO 3	NPP / WGO 2 N	NPP / WGO 2 IR		NPP / WGO 1	
<b>Cross Connection</b>	IZUK 6/2 - 3 - 4 - 6 - 10 WGO UAA (Disconnecting Tool)	IZUK 10/2 - 3 - 4 - 6 - 10	IZUK 10 W/2 - 3 - 4 - 6 - 10	IZUK 6/2 - 3 - 4 - 6 - 10 UK 6/2 - 3 - 4 - 10	IZUK 6/2 - 3 - 4 - 6 - 10 WGO UAA (Disconnecting Tool)	
<b>Comb Connector</b>	TKO 6/2 - 3 - 4 - 10	TKO 10/2 - 3 - 4 - 10	TKO 10/2 - 3 - 4 - 10		TKO 6/2 - 3 - 4 - 10	
<b>Test Plug</b>	TF (Q4)	TF (Q4)	TF (Q4)	TF (Q4)	TF (Q4)	
<b>Marking Tags</b>	DG 10/8 *ETS + 11.2 Marking Strip	DG 10/10	DG 10/10 11.2 Marking Strip	DG 10/8 11.2 Marking Strip	DG 10/8 *ETS + 11.2 Marking Strip	
<b>Mounting Rails</b>	MR 32 - 35	MR 32 - 35	MR 32 - 35	MR 35	MR 32 - 35	

Spring Loaded  
Test / Disconnect  
Terminals  
Ring Type Plug-in  
Test / Disconnect  
Terminals

	WGO Y 6 Width: 8 mm 375 919	WGO YD 6 Width: 8 mm 375 929	WGO PB 6/NM Width: 11 mm 308 069	WGO PBD 6/NM Width: 11 mm 308 079
<b>Electrical Ratings</b>				
CE (EN 60947-7-1 / EN 60947-7-2) UL / CSA	1000 V ~ / 41 A / 6 mm <sup>2</sup>	1000 V ~ / 41 A / 6 mm <sup>2</sup>	1000 V ~ / 41 A / 6 mm <sup>2</sup> 600 V ~ / 43 A / AWG 22 - 8	1000 V ~ / 41 A / 6 mm <sup>2</sup> 600 V ~ / 45 A / AWG 22 - 8
<b>End Plate</b>	NPP / WGO Y6	NPP / WGO YD6	NPP / WGO PB 6 APP / WGO PB 6	NPP / WGO PBD 6 APP / WGO PBD 6
<b>End Bracket</b>	KD 4 - KD 7	KD 4 - KD 7	KD 4 - KD 7	KD 4 - KD 7
<b>Comb Connector</b>			TKO / PB 6 / 2 - 3 - 4 - 7 - 10	TKO / PB 6 / 2 - 3 - 4 - 7 - 10
<b>Cross Connection</b>	IZUK 6 / 2 - 3 - 4 - 10 WGO UAA	IZUK 6 / 2 - 3 - 4 - 10 WGO UAA		
<b>Group Marking</b>	GE - GE 2 - ME - ME 3	GE - GE 2 - ME - ME 3	GE - GE 2 - ME - ME 3	GE - GE 2 - ME - ME 3
<b>Marking Tags</b>	DG 10/8 11,2 Marking Strip	DG 10/8 11,2 Marking Strip	DG 10/8	DG 10/8
<b>Mounting Rails</b>	MR 32 - 35	MR 32 - 35	MR 32 - 35	MR 32 - 35
<b>Test Plug</b>	TF (Q4)	TF (Q4)		

## Cover for KD 6A

## Cover for CB 144



Type	Color	Cat. No.	Qty.
KD 6A	Grey	495 109	50
KD 6A	Beige	495 100	50
Cover	Transparent Cover	498 190	1m

Type	Color	Cat. No.	Qty.
CB 144	Grey	499 459	10
CB 144	Beige	499 450	10
Cover	Transparent Cover	498 270	1m

## Sealing Pin for KD 6A



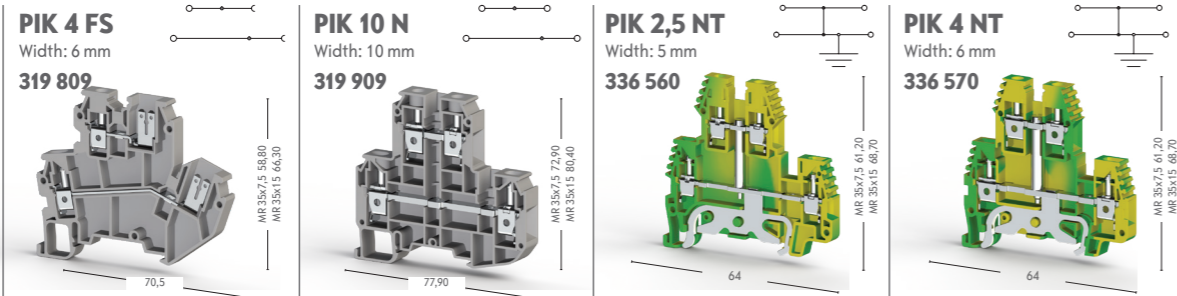
Type	Color	Cat. No.	Qty.
KD 6A	Grey	495 109	50
KD 6A	Beige	495 100	50
KD 6A	Orange Sealing Pin	498 187	100

Screw Type  
Double - Deck  
Terminals

	PIK 2,5 N Width: 5 mm 317 109	PIK 2,5 NK Width: 5 mm 317 129	PIK 2,5 ND Width: 5 mm 317 219	PIK 2,5 NLD Width: 5 mm ... ..9	PIK 2,5 RD Width: 5 mm 325 249
<b>Electrical Ratings</b>					
CE (EN 60947-7-1) UL / CSA ATEX	500 V ~ / 24 A / 2,5 mm <sup>2</sup> 300 V ~ / 20 A / AWG 26 - 12 400 V ~ / 21,5 A	500 V ~ / 24 A / 2,5 mm <sup>2</sup> 300 V ~ / 20 A / AWG 26 - 12 400 V ~ / 21,5 A	500 V ~ / 0,5 A / 2,5 mm <sup>2</sup> 300 V ~ / 20 A / AWG 26 - 12	~ V ~ / 24 A / 2,5 mm <sup>2</sup> ~ V ~ / 20 A / AWG 26 - 12 ~ V ~ / 21,5 A	500 V / 24 A / 2,5 mm <sup>2</sup>
<b>Ordering Data</b>	Grey Grey Grey Grey			317 329 (24V DC) / 317 319 (24V AC) 317 429 (48V DC) / 317 419 (48V AC) 317 629 (110V DC) / 317 619 (110V AC) 317 729 (220V DC) / 317 719 (220V AC)	
<b>Electrical Ratings</b>					
Diode Reverse Voltage Diode Current Diode			1300 V 0,5 A 1 N 4007		
<b>End Plate</b>	NPP / PIK 2,5 - 4 N	NPP / PIK 2,5 - 4 N	NPP / PIK 2,5 - 4 N	NPP / PIK 2,5 - 4 N	NPP / PIK 2,5 N - 4N
<b>Cross Connection</b>	UK 2,5/2 - 3 - 4 - 10 - 16 - 20	UK 2,5/2 - 3 - 4 - 10 - 16 - 20 Note: Only lower decks can be cross-connected	UK 2,5/2 - 3 - 4 - 10 - 16 - 20 Note: Only lower decks can be cross-connected	UK 2,5/2 - 3 - 4 - 10 - 16 - 20 Note: Only lower decks can be cross-connected	UK 2,5/2 - 3 - 4 - 10
<b>Marking Tags</b>	DB 10/5 - DG 10/5 - DG 10/5T *ETS + 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T *ETS + 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T *ETS + 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T *ETS + 11.2 Marking Strip	DG 10/5 - DG 10/5T - DB 10/5
<b>Mounting Rails</b>	MR 35	MR 35	MR 35	MR 35	MR 35
<b>Electrical Ratings</b>					
CE (EN 60947-7-1) UL / CSA ATEX	500 V ~ / 32 A / 4 mm <sup>2</sup> 300 V ~ / 30 A / AWG 26 - 10 400 V ~ / 29,5 A	500 V ~ / 32 A / 4 mm <sup>2</sup> 300 V ~ / 30 A / AWG 26 - 10 400 V ~ / 29,5 A	500 V ~ / 0,5 A / 4 mm <sup>2</sup> 300 V ~ / 30 A / AWG 26 - 10 400 V ~ / 29,5 A	~ V ~ / 24 A / 4 mm <sup>2</sup> ~ V ~ / 30 A / AWG 26 - 10 ~ V ~ / 29,5 A	500 V / 32 A / 4 mm <sup>2</sup>
<b>Ordering Data</b>	Grey Grey Grey Grey			319 329 (24V DC) / 319 319 (24V AC) 319 429 (48V DC) / 319 419 (48V AC) 319 629 (110V DC) / 319 619 (110V AC) 319 729 (220V DC) / 319 719 (220V AC)	
<b>Electrical Ratings</b>					
Diode Reverse Voltage Diode Current Diode			1300 V 0,5 A 1 N 4007		
<b>End Plate</b>	NPP / PIK 2,5 - 4 N	NPP / PIK 2,5 - 4 N	NPP / PIK 2,5 - 4 N	NPP / PIK 2,5 - 4 N	NPP / PIK 4N
<b>Cross Connection</b>	UK 4/2 - 3 - 4 - 10 - 20 - 50	UK 4/2 - 3 - 4 - 10 - 20 - 50 Note: Only lower decks can be cross-connected	UK 4/2 - 3 - 4 - 10 - 20 - 50 Note: Only lower decks can be cross-connected	UK 4/2 - 3 - 4 - 10 - 20 - 50 Note: Only lower decks can be cross-connected	UK 4/2 - 3 - 4 - 10
<b>Marking Tags</b>	DB 10/6 - DG 10/6 - DG 10/6T *ETS + 11.2 Marking Strip	DB 10/6 - DG 10/6 - DG 10/6T *ETS + 11.2 Marking Strip	DB 10/6 - DG 10/6 - DG 10/6T *ETS + 11.2 Marking Strip	DB 10/6 - DG 10/6 - DG 10/6T *ETS + 11.2 Marking Strip	DB 10/6 - DG 10/6 - DG 10/6T
<b>Mounting Rails</b>	MR 35	MR 35	MR 35	MR 35	MR 35

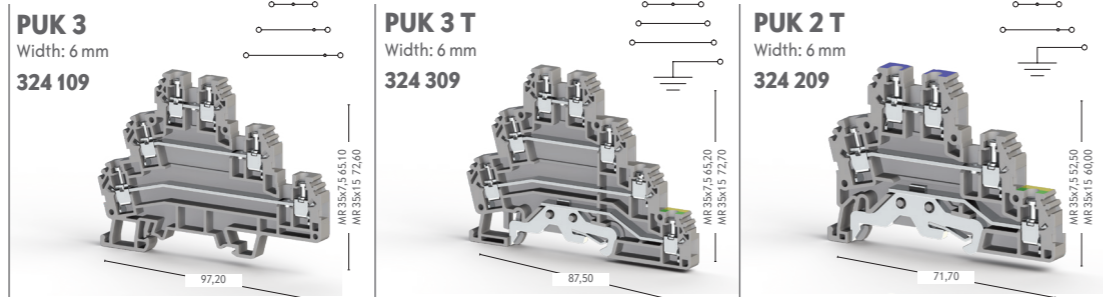
\*Please refer to page:40

## Screw Type Double-Deck Terminals



Electrical Ratings	PIK 4 FS Width: 6 mm 319 809	PIK 10 N Width: 10 mm 319 909	PIK 2,5 NT Width: 5 mm 336 560	PIK 4 NT Width: 6 mm 336 570
CE (EN 60947-7-1 / 60947-7-2)	400 V ~ / 20 A / 4 mm <sup>2</sup>	800 V ~ / 57 A / 10 mm <sup>2</sup>	~ V ~ / ~ A / 2,5 mm <sup>2</sup>	~ V ~ / ~ A / 4 mm <sup>2</sup>
UL / CSA	400 V ~ / 20 A			
ATEX	400 V ~ / 20 A			
End Plate	NPP PIK 4 FS	NPP PIK 10 N	NPP PIK 2,5 - 4N	NPP PIK 2,5 - 4N
End Bracket	KD 3 - KD 4 - KD 7		KD 6 - KD 7	KD 6 - KD 7
Cross Connection	UK 4/2 - 3 - 4 - 10	UK 10/2 - 3 - 4 - 10		
Insulated Terminals	KFD 1288 - 1488 - 1638 - 2488 - 2638 KFD 5638			
Marking Tags	DB 5 - DG 6/5	DB 5 - DG 6/5	DG 6/5 - DB 10/5 - DG 10/5 - DG 10/5T *ETS + 11.2 Marking Strip	DG 6/5 - DB 10/6 - DG 10/6 - DG 10/6T *ETS + 11.2 Marking Strip
Mounting Rails	MR 35	MR 35	MR 35	MR 35

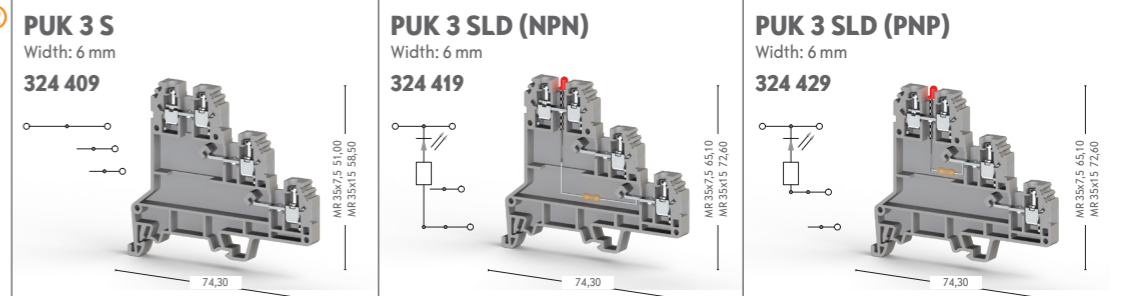
## Screw Type Multilevel Terminals



Electrical Ratings	PUK 3 Width: 6 mm 324 109	PUK 3 T Width: 6 mm 324 309	PUK 2 T Width: 6 mm 324 209
CE (EN 60947-7-1 / 60947-7-2)	440 V ~ / 24 A / 2,5 mm <sup>2</sup>	440 V ~ / 24 A / 2,5 mm <sup>2</sup>	440 V ~ / 24 A / 2,5 mm <sup>2</sup>
UL / CSA	300 V ~ / 24 A / AWG 24 - 12	300 V ~ / 24 A / AWG 24 - 12	300 V ~ / 24 A / AWG 24 - 12
ATEX	400 V ~ / 24 A	400 V ~ / 24 A	400 V ~ / 24 A
End Plate	NPP / PUK 3	NPP / PUK 3 T	NPP / PUK 2 T
Cross Connection	UK 2,5/2 - 3 - 4 - 10 - 16 - 20	UK 2,5/2 - 3 - 4 - 10 - 16 - 20 Only upper decks can be cross-connected.	UK 2,5/2 - 3 - 4 - 10 - 16 - 20
Marking Tags	DB 5 - DG 6/5	DB 5 - DG 6/5	DB 5 - DG 6/5
Mounting Rails	MR 35	MR 35	MR 35

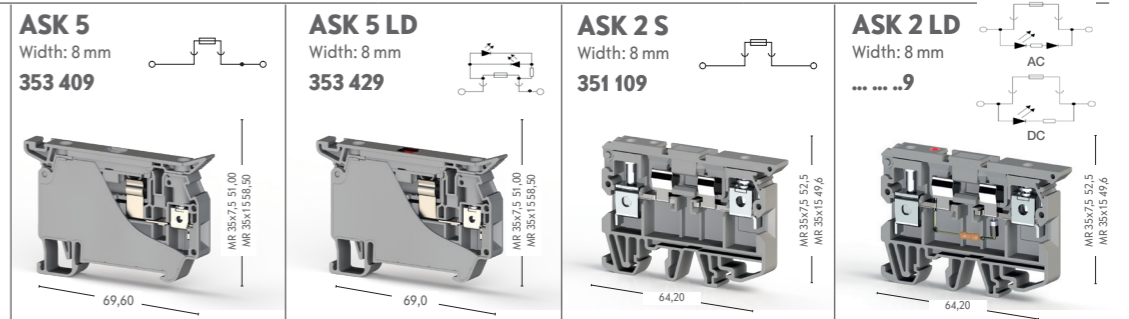
\*Please refer to page:40

## Screw Type Sensor Terminals



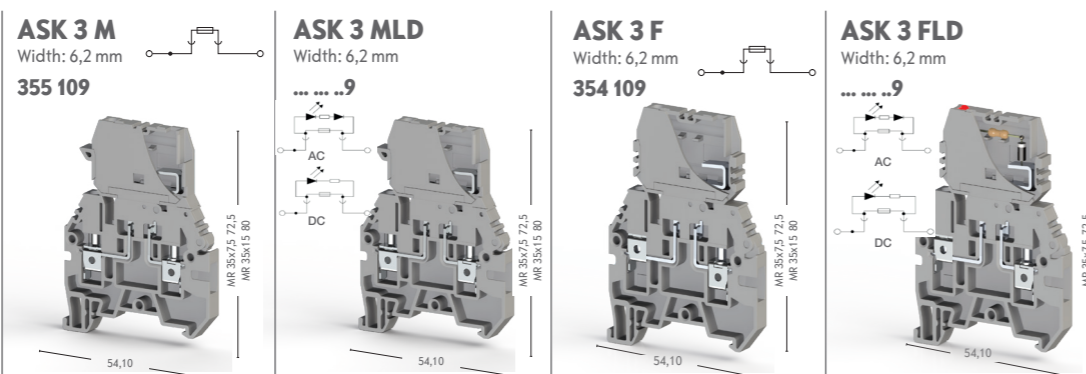
Electrical Ratings	PUK 3 S Width: 6 mm 324 409	PUK 3 SLD (NPN) Width: 6 mm 324 419	PUK 3 SLD (PNP) Width: 6 mm 324 429
CE (EN 60947-7-1)	500 V ~ / 24 A / 2,5 mm <sup>2</sup>	24 V ~ / 24 A / 2,5 mm <sup>2</sup>	24 V ~ / 24 A / 2,5 mm <sup>2</sup>
UL / CSA	300 V ~ / 24 A / AWG 24 - 12	300 V ~ / 24 A / AWG 24 - 12	300 V ~ / 24 A / AWG 24 - 12
End Plate	NPP / PUK 3 S	NPP / PUK 3 S	NPP / PUK 3 S
Cross Connection	UK 2,5/2 - 3 - 4 - 10 - 16 - 20	UK 2,5/2 - 3 - 4 - 10 - 16 - 20	UK 2,5/2 - 3 - 4 - 10 - 16 - 20
Marking Tags	DB 5 - DG 6/5	DB 5 - DG 6/5	DB 5 - DG 6/5
Mounting Rails	MR 35	MR 35	MR 35

## Screw Type Fuse Terminals

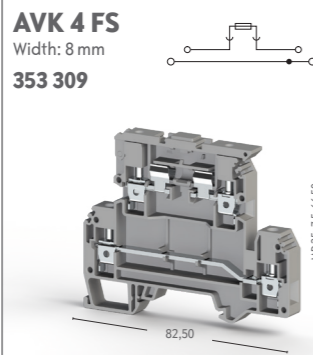


Electrical Ratings	ASK 5 Width: 8 mm 353 409	ASK 5 LD Width: 8 mm 353 429	ASK 2 S Width: 8 mm 351 109	ASK 2 LD Width: 8 mm ... .. 9
CE (EN 60947-7-1)	500 V ~ / 10 A / 4 mm <sup>2</sup>	24 V / 10 A / 4 mm <sup>2</sup>	500 V ~ / 6,3 A / 6 mm <sup>2</sup>	24 V ~ / 6,3 A / 6 mm <sup>2</sup>
UL / CSA	300 V ~ / 10 A / AWG 26 - 10	24 V ~ / 10 A / AWG 26 - 10	300 V ~ / 6,3 A / AWG 26 - 8	24 V ~ / 6,3 A / AWG 26 - 8
Ordering Data	Grey Grey Grey Grey Grey Grey Grey Grey	353 429 (24V AC/DC) 353 449 (110V AC/DC) 353 439 (220V AC/DC)		351 219 (24V AC) 351 229 (24V DC) 351 319 (48V AC) 351 329 (48V DC) 351 519 (110V AC) 351 529 (110V DC) 351 619 (220V AC) 351 629 (220V DC)
End Plate			NPP / AVK ASK 2	NPP / AVK ASK 2
End Bracket			KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
Cross Connection			UK 6/2 - 3 - 4 - 10	UK 6/2 - 3 - 4 - 10
Group Marking	GE - ME - ME 2 - ME 3	GE - ME - ME 2 - ME 3	GE - ME - ME 2 - ME 3	GE - ME - ME 2 - ME 3
Marking Tags	DG 10/8	DG 10/8	DG 6/5 - DB 5	DG 6/5 - DB 5
Mounting Rails	MR 35	MR 35	MR 32 - 35	MR 32 - 35

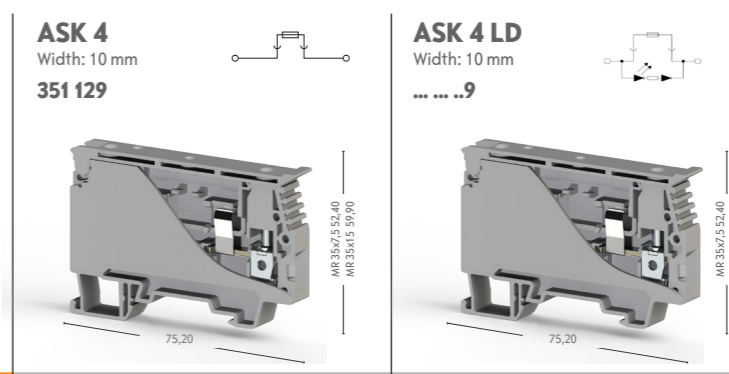




Electrical Ratings	ASK 3 M Width: 6,2 mm 355 109	ASK 3 MLD Width: 6,2 mm ... ..9	ASK 3 F Width: 6,2 mm 354 109	ASK 3 FLD Width: 6,2 mm ... ..9
CE (EN 60947-7-1 / 60947-7-3)	500 V ~ / 10 A / 4 mm <sup>2</sup>	24 V ~ / 10 A / 4 mm <sup>2</sup>	500 V ~ / 10 A / 4 mm <sup>2</sup>	24 V ~ / 10 A / 4 mm <sup>2</sup>
UL / CSA	600 V ~ / 10 A / AWG 26 - 10	24 V ~ / 10 A / AWG 26 - 10	600 V ~ / 10 A / AWG 26 - 10	24 V ~ / 10 A / AWG 26 - 10
Ordering Data				
	Grey	355 219 (24V AC)		354 219 (24V AC)
	Grey	355 229 (24V DC)		354 229 (24V DC)
	Grey	355 319 (48V AC)		354 319 (48V AC)
	Grey	355 329 (48V DC)		354 329 (48V DC)
	Grey	355 519 (110V AC)		354 519 (110V AC)
	Grey	355 529 (110V DC)		354 529 (110V DC)
	Grey	355 619 (220V AC)		354 619 (220V AC)
	Grey	355 629 (220V DC)		354 629 (220V DC)
End Plate				
	NPP / ASK 3	NPP / ASK 3	NPP / ASK 3	NPP / ASK 3
Cross Connection				
	UK 4/2 - 3 - 4	UK 4/2 - 3 - 4	UK 4/2 - 3 - 4	UK 4/2 - 3 - 4
Marking Tags				
	DG 6/5 - DG 10/5 - DG 10/6 DB 5 - DB 10/6	DG 6/5 - DG 10/5 - DG 10/6 DB 5 - DB 10/6	DG 6/5 - DG 10/5 - DG 10/6 DB 5 - DB 10/6	DG 6/5 - DG 10/5 - DG 10/6 DB 5 - DB 10/6
Mounting Rails				
	MR 35	MR 35	MR 35	MR 35

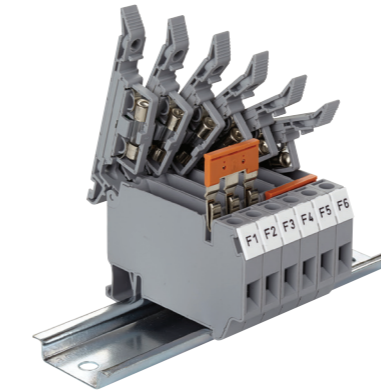


Electrical Ratings	AVK 4 FS Width: 8 mm 353 309
CE (EN 60947-7-1)	500 V ~ / 32 A / 4 mm <sup>2</sup>
UL / CSA	300 V ~ / 6,3/30 A / AWG 26-10
End Plate	
	NPP / AVK 4 FS
Cross Connection	
	UK 6/2 - 3 - 4 - 10
Marking Tags	
	DB 5 - DG 6/5
Mounting Rails	
	MR 35



Electrical Ratings	ASK 4 Width: 10 mm 351 129	ASK 4 LD Width: 10 mm ... ..9
CE (EN 60947-7-1 / 60947-7-3)	750 V ~ / 6,3 A / 6 mm <sup>2</sup>	~ V ~ / 6,3 A / 6 mm <sup>2</sup>
UL / CSA	600 V ~ / 6,3 A / AWG 22 - 8	24 V ~ / 6,3 A / AWG 22 - 8
Ordering Data		
	Grey	351 719 (24V AC)
	Grey	351 729 (24V DC)
	Grey	351 739 (48V AC)
	Grey	351 749 (48V DC)
	Grey	351 759 (110V AC)
	Grey	351 769 (110V DC)
	Grey	351 779 (220V AC)
	Grey	351 789 (220V DC)
Marking Tags		
	DG 10/8	DG 10/8
Mounting Rails		
	MR 35	MR 35

Fuse / Fuse Type	Used Terminals
G / 5x20 - 5x25	ASK 2S, ASK 2LD, ASK 3M, ASK 3MLD, ASK 3F, ASK 3FLD, ASK 4FS, ASK 4FLD, ASK 5, ASK 5LD



Screw Connection Fuse Rail Terminals Terminals can be used with glass fuse between 1A...10A. The fuse inside of the terminal is easily mounted and dismantled, and is an ideal solution when there is a necessity to change it even when the power is on in the system. Marking solutions can be provided by Plotter Labeling.

COLOR ORDER NUMBERS										
Color	Beige	Blue	Green	Yellow	Red	Black	White	Orange	Brown	Grey
AVK Series	...9	...1	...2	...3	...4	...5	...6	...7	...8	...0

\* Color code is the last digit of the order number



### 04 Partition Plates

462 170	APP	Grey	AVK 16 RD
462 179	APP	Beige	AVK 16 RD
464 009	APP	Grey	PB 2,5 - 6NM
464 000	APP	Beige	PB 2,5 - 6NM
464 019	APP	Grey	PB 25NM
464 010	APP	Beige	PB 25NM

### 05 Small Partition Plates

467 919	AD 1	Grey	AVK 2,5 - 10
467 910	AD 1	Beige	AVK 2,5 - 10

### 06 End Brackets

Cat. No.	Type	Color	
495 040	KD 3	Beige	MR 35
495 049	KD 3	Grey	MR 35
495 050	KD 4	Beige	MR 35
495 059	KD 4	Grey	MR 35
495 090	KD 6	Beige	MR 35
495 099	KD 6	Grey	MR 35
495 100	KD 6A	Beige	MR 35
495 109	KD 6A	Grey	MR 35
495 200	KD 6T	Beige	MR 35
495 209	KD 6T	Grey	MR 35
495 210	KD 7	Beige	MR 35
495 219	KD 7	Grey	MR 35

### 07 Group Marking

Cat. No.	Type	Color	
496 110	GE	Beige	MR 32 / MR 35
496 119	GE	Grey	MR 32 / MR 35
496 259	GE 2	White	AVK 2,5-10 / RD - 4 RD
496 255	GE 3	White	AVK 16-35 / 16 RD - 35 RD
496 12A	ME 1-1	Transparent	with KD 4
496 13A	ME 1-2	Transparent	with KD 4
496 14A	ME 2-2	Transparent	with KD 4
496 300	ME 3	Transparent	with KD 7

### 08 Comb Connectors

Cat. No.	Type		Pole
476 262	TKO 2,5/2	AVK 2,5	2
476 263	TKO 2,5/3	AVK 2,5	3
476 264	TKO 2,5/4	AVK 2,5	4
476 269	TKO 2,5/10	AVK 2,5	10
476 272	TKO 4/2	AVK 4	2
476 273	TKO 4/3	AVK 4	3
476 274	TKO 4/4	AVK 4	4
476 279	TKO 4/10	AVK 4	10
476 282	TKO 6/2	AVK 6 - WGL 1	2
476 283	TKO 6/3	AVK 6 - WGL 1	3
476 284	TKO 6/4	AVK 6 - WGL 1	4
476 289	TKO 6/10	AVK 6 - WGL 1	10
476 292	TKO 10/2	AVK 10 / WGO 2IR	2
476 293	TKO 10/3	AVK 10 / WGO 2IR	3
476 294	TKO 10/4	AVK 10 / WGO 2IR	4
476 299	TKO 10/10	AVK 10 / WGO 2IR	10

### 09 Mounting Rails

500 101	MR 32	32	1 m
500 601	MR 35	35 x 7,5	1 m
500 602	MR 35	35 x 7,5	1 m
500 603	MR 35	35 x 7,5	2 m
500 604	MR 35	35 x 7,5	2 m
500 605	MR 35	35 x 7,5	30 cm
500 606	MR 35	35 x 15	1 m
500 607	MR 35	35 x 15	1 m
500 608	MR 35	35 x 15	2 m
500 609	MR 35	35 x 15	2 m

### 10 Test Plug-Soc. / Ins. Test Soc.

492 010	ITK 28 (Ø4)	AVK 4 ... 10
492 020	ITK 32 (Ø4)	AVK 16
490 010	TSK 1 (Ø2)	AVK 2,5
490 030	TSK 3 (Ø2,3)	AVK 2,5
490 040	TSK 4 (Ø2,3)	AVK 4 ... 10
490 070	TSK 7 (Ø4)	AVK 4 ... 10
490 080	TSK 8 (Ø4)	AVK 16
490 090	TSK 9 (Ø4)	AVK 35
493 020	TF (Ø2)	AVK 2,5
493 023	TF (Ø2,3)	AVK 2,5 - 4 - 6 - 10
493 040	TF (Ø4)	AVK 4 - 6 - 10 - 35

### 11 Isolation Covers

466 100	KKB 95	AVK 95 B
466 110	KKB 150	AVK 150 B
466 120	KKB 240	AVK 240 B

### 12 Labeling

505 310	DG 10/5
505 380	DG 10/5 T
505 320	DG 10/6
505 390	DG 10/6 T
505 330	DG 6/5
505 410	DG 10/8
505 430	DG 10/10
503 000	DB 4
505 850	DB 5
505 910	DB 10/5
505 915	DB 10/6
505 920	DB 10/6,5

### 13 Warning Label

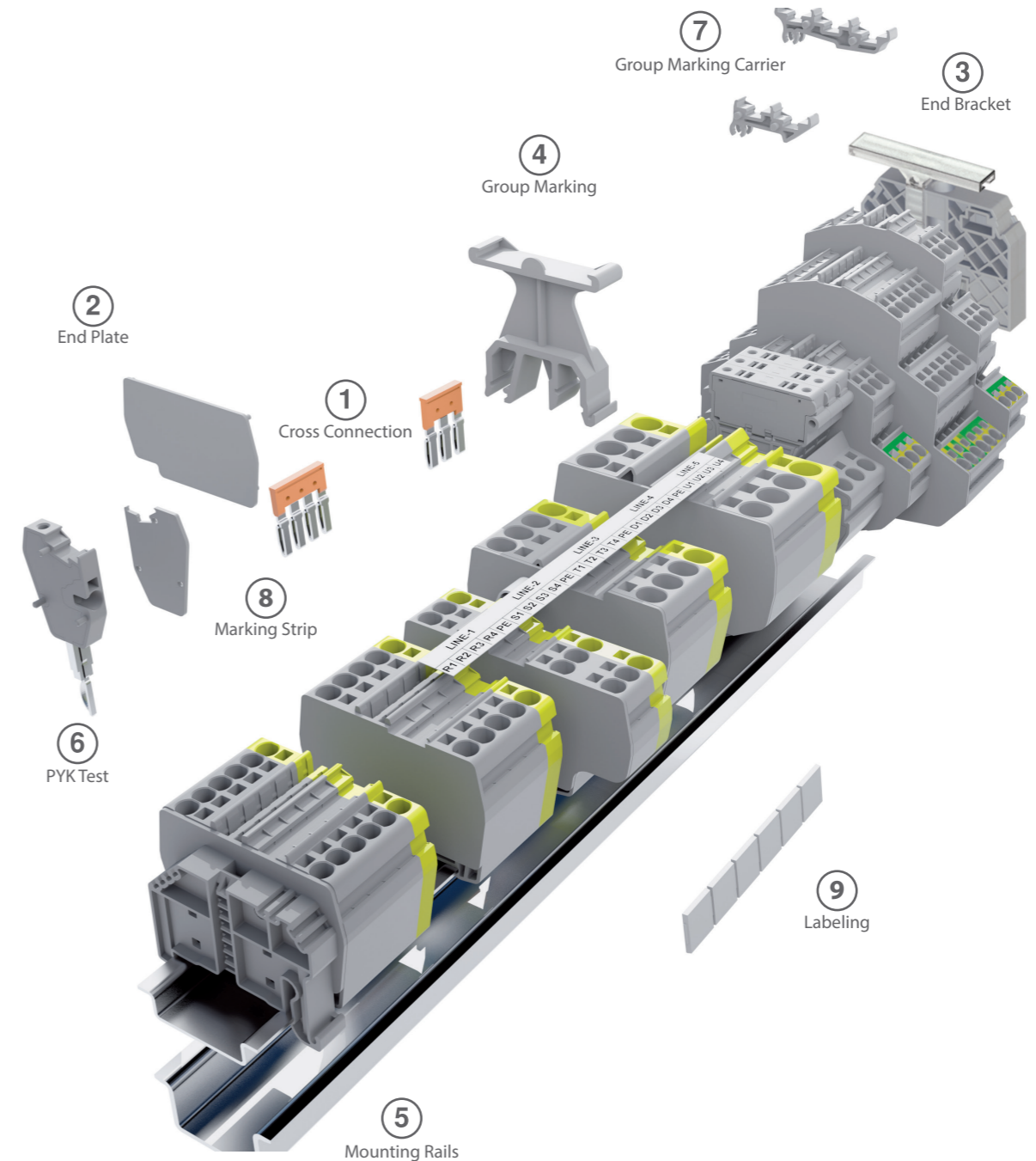
498 130	IP 2S	AVK 2,5 - 4 - 6 - 10 AVK 2,5 RD - 4 RD AVK 2,5 T RD - 4 T RD
498 140	IP 2	AVK 2,5 - 4 - 6 - 10 AVK 2,5 RD - 4 RD AVK 2,5 T RD - 4 T RD
498 143	IP 3S	AVK 16 - 16 RD - 35 RD AVK 35 T RD
498 145	IP 2	AVK 16 - 16 RD - 35 RD AVK 35 T RD
498 240	IP5	AVK 50 - 70 RD AVK 95 - 150 - 240
498 250	IP 5S	AVK 50 - 70 RD AVK 95 - 150 - 240

## PYK - PUSH-IN TERMINAL BLOCKS

Catch the technology with PYK series terminal blocks. **PYK** is the newest technology in the spring clamp connection type; it provides users with fast and secure connection. Cable is connected to the terminal just by pushing-in, without the need to use a screwdriver. PYK is suitable for applications with or without end-sleeves. All you need to do is to push the cable into the cable hole to make the connection. If needed, cable can be released easily by using a screwdriver.

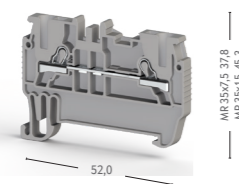
**PYK series** has a faster and easier montage advantage compared to AVK and YBK series. Cross connection for PYK is the same standard push-in type cross connectors used for YBK and AVK RD series. By this means user has the flexibility in using the cross connections.

Marking tags used for PYK series can be the standard labels and the outputs of thermal printer or plotter machines as well. User can design, group or code the marking tags at his/her will by using thermal printers or plotters.

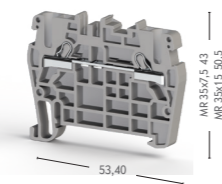


**Klemsan®**  
Practical  
Spring Clamp  
Terminals

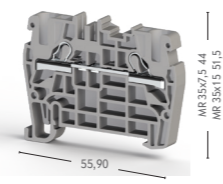
**PYK 1,5 M**  
Width: 4,2 mm  
**307 019**



**PYK 2,5**  
Width: 5 mm  
**307 109**

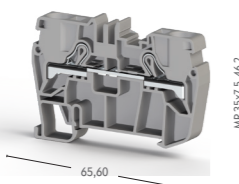


**PYK 4**  
Width: 6 mm  
**307 119**

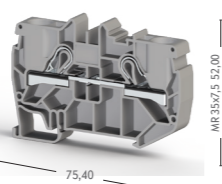


<b>Electrical Ratings</b>			
CE (EN 60947-7-1)	800 V / 17,5 A / 1,5 mm <sup>2</sup>	800 V ~ / 24 A / 2,5 mm <sup>2</sup>	800 V ~ / 32 A / 4 mm <sup>2</sup>
UL / CSA		600 V ~ / 20 A / AWG 22-12	600 V ~ / 30 A / AWG 22-10
VDE		800 V ~ / 24 A / 2,5 mm <sup>2</sup>	800 V ~ / 32 A / 4 mm <sup>2</sup>
ATEX		800 V ~ / 24 A	800 V ~ / 32 A
<b>Cross Connection</b>			
	UK 1,5 / 2-3-4-10	UK 2,5/2 - 3 - 4 - 10 - 16 - 20	UK 4 / 2 - 3 - 4 - 10
<b>End Plate</b>			
	NPP / PYK 1,5 M APP / PYK 1,5-2,5-4	NPP / PYK 2,5 APP / PYK 1,5-2,5-4	NPP / PYK 4 APP / PYK 4
<b>Test PYK</b>			
		PYK Test	PYK Test PYK Test - A
<b>End Bracket</b>			
	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Group Marking</b>			
	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3
<b>Marking Tags</b>			
	DB 6/4 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip	DB 10/6 - DG 10/6 - DG 10/6T 11.2 Marking Strip
<b>Mounting Rails</b>			
	MR 35	MR 35	MR 35

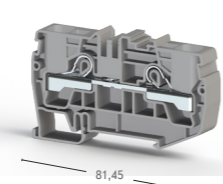
**PYK 6**  
Width: 8 mm  
**307 129**



**PYK 10**  
Width: 10 mm  
**307 139**



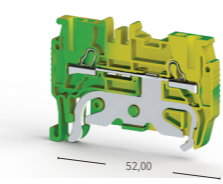
**PYK 16**  
Width: 12 mm  
**307 659**



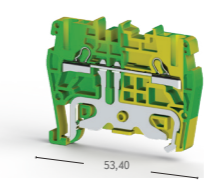
<b>Electrical Ratings</b>			
CE (EN 60947-7-1)	800 V ~ / 41 A / 6 mm <sup>2</sup>	800 V ~ / 57 A / 10 mm <sup>2</sup>	1000 V ~ / 76 A / 16 mm <sup>2</sup>
UL / CSA		600 V ~ / 45 A / AWG 20-8	600 V ~ / 55 A / AWG 20-6
VDE		800 V ~ / 41 A	800 V ~ / 57 A
ATEX			
<b>Cross Connection</b>			
	UK 6 / 2-3-4-10	UK 10 / 2-3-4-10	CS 16 / 2-3-4-5
<b>End Plate</b>			
	NPP / PYK 6 APP / PYK 6	NPP / PYK 10 APP / PYK 10	NPP / PYK 16
<b>End Bracket</b>			
	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Group Marking</b>			
	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3
<b>Marking Tags</b>			
	DG 10/8 11.2 Marking Strip	DG 10/10 11.2 Marking Strip	DG 10/10 11.2 Marking Strip
<b>Mounting Rails</b>			
	MR 35	MR 35	MR 35

**Klemsan®**  
Practical  
Spring Clamp  
Earth  
Terminals

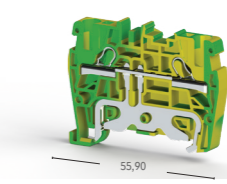
**PYK 1,5 MT**  
Width: 4,2 mm  
**336 440**



**PYK 2,5 T**  
Width: 5 mm  
**336 500**

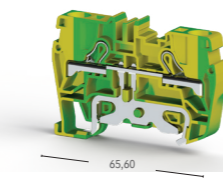


**PYK 4 T**  
Width: 6 mm  
**336 510**

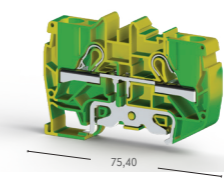


<b>Electrical Ratings</b>			
CE (EN 60947-7-2)	~ V ~ / ~ A / 1,5 mm <sup>2</sup>	~ V ~ / ~ A / 2,5 mm <sup>2</sup>	~ V ~ / ~ A / 4 mm <sup>2</sup>
UL / CSA		~ V ~ / ~ A / AWG 22-12	~ V ~ / ~ A / AWG 22-10
VDE		~ V ~ / ~ A / 2,5 mm <sup>2</sup>	~ V ~ / ~ A / 4 mm <sup>2</sup>
ATEX		800 V	800 V
<b>End Plate</b>			
	NPP / PYK 1,5 MT	NPP / PYK 2,5 T	NPP / PYK 4 T
<b>End Bracket</b>			
	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Group Marking</b>			
	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3
<b>Marking Tags</b>			
	DB 6/4 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip	DB 10/6 - DG 10/6 - DG 10/6T 11.2 Marking Strip
<b>Mounting Rails</b>			
	MR 35	MR 35	MR 35

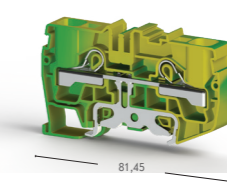
**PYK 6 T**  
Width: 8 mm  
**336 520**



**PYK 10 T**  
Width: 10 mm  
**336 530**









**PYK 16 T**  
Width: 12 mm  
**336 640**










<b>Electrical Ratings</b>			
CE (EN 60947-7-2)	~ V ~ / ~ A / 6 mm <sup>2</sup>	~ V ~ / ~ A / 10 mm <sup>2</sup>	~ V ~ / ~ A / 16 mm <sup>2</sup>
UL / CSA		~ V ~ / ~ A / AWG 20-8	600 V ~ / ~ A / AWG 20-6
VDE			
ATEX			
<b>End Plate</b>			
	NPP / PYK 6 T	NPP / PYK 10 T	NPP / PYK 16 T
<b>End Bracket</b>			
	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Group Marking</b>			
	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3
<b>Marking Tags</b>			
	DG 10/8 11.2 Marking Strip	DG 10/10 11.2 Marking Strip	DG 10/10 11.2 Marking Strip
<b>Mounting Rails</b>			
	MR 35	MR 35	MR 35

Multi Input / Output Practical Spring Clamp Terminals









	<b>PYK 1,5 ME</b> Width: 4,2 mm 307 039	<b>PYK 1,5 MET</b> Width: 4,2 mm 336 460	<b>PYK 1,5 MC</b> Width: 4,2 mm 307 029	<b>PYK 1,5 MCT</b> Width: 4,2 mm 336 450
<b>Electrical Ratings</b> CE (EN 60947-7-1) UL / CSA	800 V / 17,5 A / 1,5 mm <sup>2</sup>	~ V / ~ A / 1,5 mm <sup>2</sup>	800 V / 17,5 A / 1,5 mm <sup>2</sup>	~ V / ~ A / 1,5 mm <sup>2</sup>
<b>Cross Connection</b> 	UK 1,5 / 2-3-4-10		UK 1,5 / 2-3-4-10	
<b>End Plate</b> 	NPP / PYK 1,5 ME	NPP / PYK 1,5 MET	NPP / PYK 1,5 MC	NPP / PYK 1,5 MCT
<b>End Bracket</b> 	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Group Marking</b> 	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3
<b>Marking Tags</b> 	DB 6/4 11,2 Marking Strip	DB 6/4 11,2 Marking Strip	DB 6/4 11,2 Marking Strip	DB 6/4 11,2 Marking Strip
<b>Mounting Rails</b> 	MR 35	MR 35	MR 35	MR 35

PYK Series One Input - Two Output

Two Input - Two Output Terminals

	<b>PYK 2,5 E</b> Width: 5 mm 307 439	<b>PYK 2,5 ET</b> Width: 5 mm 336 550	<b>PYK 2,5 C</b> Width: 5 mm 307 389	<b>PYK 2,5 CT</b> Width: 5 mm 336 540
<b>Electrical Ratings</b> CE (EN 60947-7-1) UL / CSA	800 V / 24 A / 2,5 mm <sup>2</sup> 600 V / 20 A / AWG 22-12	~ V / ~ A / 2,5 mm <sup>2</sup> ~ V / ~ A / AWG 22-12	800 V / 24 A / 2,5 mm <sup>2</sup> 600 V / 20 A / AWG 22-12	~ V / ~ A / 2,5 mm <sup>2</sup> ~ V / ~ A / AWG 22-12
<b>Cross Connection</b> 	UK 2,5/2 - 3 - 4 - 10 - 16 - 20		UK 2,5/2 - 3 - 4 - 10 - 16 - 20	
<b>End Plate</b> 	NPP / PYK 2,5 E	NPP / PYK 2,5 ET	NPP / PYK 2,5 C	NPP / PYK 2,5 CT
<b>Test PYK</b> 	PYK Test		PYK Test	
<b>End Bracket</b> 	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Group Marking</b> 	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3
<b>Marking Tags</b> 	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip
<b>Mounting Rails</b> 	MR 35	MR 35	MR 35	MR 35

Multi Input / Output Practical Spring Clamp Terminals

	<b>PYK 4 E</b> Width: 6 mm 307 229	<b>PYK 4 ET</b> Width: 6 mm 336 600
<b>Electrical Ratings</b> CE (EN 60947-7-1 / 60947-7-2) UL / CSA ATEX	800 V / 32 A / 4 mm <sup>2</sup> 600 V / 30 A / AWG 22-12 800 V / 30 A	~ V / ~ A / 4 mm <sup>2</sup>
<b>Cross Connection</b> 	UK 4 / 2 - 3 - 4 - 10	
<b>End Plate</b> 	NPP / PYK 4 E	NPP / PYK 4 ET
<b>Test PYK</b> 	PYK Test PYK Test A	
<b>End Bracket</b> 	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Group Marking</b> 	GE - ME - ME 3	ME 3
<b>Group Marking Carrier</b> 		
<b>Marking Tags</b> 	DB 10/6 - DG 10/6 - DG 10/6T 11.2 Marking Strip	DB 10/6 - DG 10/6 - DG 10/6T 11.2 Marking Strip
<b>Mounting Rails</b> 	MR 35	MR 35

Practical Spring Clamp Mini Terminals

	<b>PYKMR 2,5</b> Width: 5 mm 307 399	<b>PYKMR 2,5</b> Width: 5 mm 307 499	<b>PYKMR 2,5 T</b> Width: 5 mm 336 430
<b>Electrical Ratings</b> CE (EN 60947-7-1 / 60947-7-2)	800 V / 24 A / 2,5 mm <sup>2</sup> 600 V / 20 A / AWG 22-12	800 V / 24 A / 2,5 mm <sup>2</sup>	~ V / ~ A / 2,5 mm <sup>2</sup> ~ V / ~ A / AWG 22-12
<b>End Plate</b> 	NPP1 / PYKMR 2,5 NPP2 / PYKMR 2,5	NPP1 / PYKMR 2,5 NPP2 / PYKMR 2,5	NPP1 / PYKMR 2,5 T NPP2 / PYKMR 2,5 T
<b>End Bracket</b> 	KD 5	KD 3 - KD 4 - KD 7	KD 5
<b>Group Marking</b> 	GE - GE 2 - ME	GE - GE 2 - ME - ME 3	GE - GE 2 - ME
<b>Marking Tags</b> 	DB 5 - DG 6/5 11.2 Marking Strip	DB 5 - DG 6/5 11.2 Marking Strip	DB 5 - DG 6/5 11.2 Marking Strip
<b>Mounting Rails</b> 	MR 15	MR 35	MR 15

Double Deck  
Practical  
Spring Clamp  
Terminals



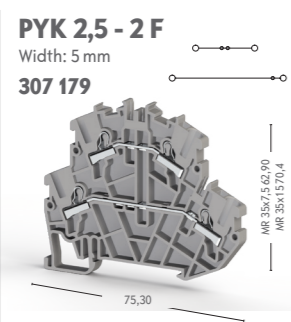
**PYK 2.5 - M2 FT**  
Width: 5 mm  
**307 709**



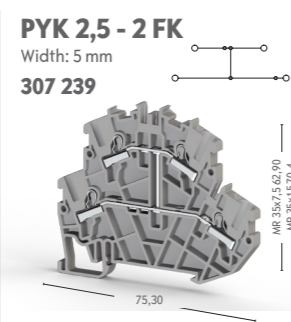
**PYK 2.5 - M2F**  
Width: 5 mm  
**307 699**

<b>Electrical Ratings</b>		
CE (EN 60947-7-1) CE (EN 60947-7-2)	250 V ~ / 24 A / 2,5 mm <sup>2</sup>	250 V ~ / 24 A / 2,5 mm <sup>2</sup>
<b>Cross Connection</b>		
	UK 2,5/2 - 3 - 4 - 10 - 16 - 20	UK 2,5/2 - 3 - 4 - 10 - 16 - 20
<b>End Plate</b>		
	NPP / PYK 2,5 - M2FT	NPP / PYK 2,5 - MF
<b>End Bracket</b>		
	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Marking Tags</b>		
	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip	DG 6/5 - DB 5 11.2 Marking Strip
<b>Mounting Rails</b>		
	MR 35	MR 35

Double Deck  
Practical  
Spring Clamp  
Terminals



**PYK 2,5 - 2 F**  
Width: 5 mm  
**307 179**



**PYK 2,5 - 2 FK**  
Width: 5 mm  
**307 239**



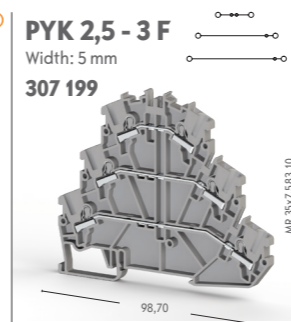
**PYK 2,5 - 2 FLD**  
Width: 5 mm  
**307 349**



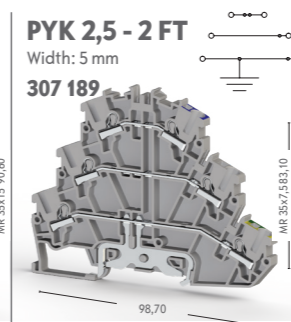
**PYK 4 - 2 FN**  
Width: 6 mm  
**307 579**

<b>Electrical Ratings</b>				
CE (EN 60947-7-1) UL / CSA VDE ATEX	500 V ~ / 24 A / 2,5 mm <sup>2</sup> 300 V ~ / 20 A / AWG 22 - 12 500 V ~ / 21 A	500 V ~ / 24 A / 2,5 mm <sup>2</sup> 300 V ~ / 20 A / AWG 22 - 12 500 V ~ / 21 A	24 V ~ / 24 A / 2,5 mm <sup>2</sup>	500 V ~ / 32 A / 4 mm <sup>2</sup>
<b>Cross Connection</b>				
	UK 2,5/2 - 3 - 4 - 10 - 16 - 20	UK 2,5/2 - 3 - 4 - 10 - 16 - 20	UK 2,5/2 - 3 - 4 - 10 - 16 - 20	UK 4/2 - 3 - 4 - 10
<b>End Plate</b>				
	NPP / PYK 2,5 - 2 F	NPP / PYK 2,5 - 2 FK	NPP / PYK 2,5 - 2 FLD	NPP / PYK 4 - 2 F
<b>End Bracket</b>				
	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Group Marking</b>				
	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3
<b>Group Marking Carrier</b>				
	ETS 2 PYK 2,5	ETS 2 PYK 2,5	ETS 2 PYK 2,5	ETS 2 PYK 4
<b>Marking Tags</b>				
	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip	DB 10/6 - DG 10/6 - DG 10/6T 11.2 Marking Strip
<b>Mounting Rails</b>				
	MR 35	MR 35	MR 35	MR 35

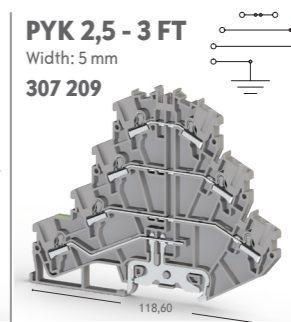
Multilevel  
Practical Spring  
Clamp



**PYK 2,5 - 3 F**  
Width: 5 mm  
**307 199**



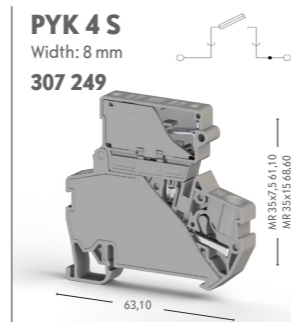
**PYK 2,5 - 2 FT**  
Width: 5 mm  
**307 189**



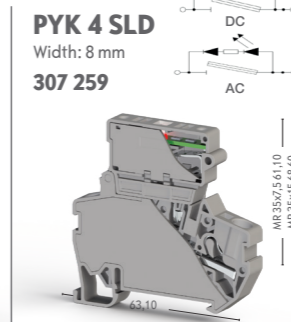
**PYK 2,5 - 3 FT**  
Width: 5 mm  
**307 209**

<b>Electrical Ratings</b>			
CE (EN 60947-7-1 / 60947-7-2) UL / CSA ATEX	500 V ~ / 24 A / 2,5 mm <sup>2</sup> 300 V ~ / 20 A / AWG 22-12 500 V ~ / 20,5 A	500 V ~ / 24 A / 2,5 mm <sup>2</sup> 300 V ~ / 20 A / AWG 22-12 500 V ~ / 21 A	500 V ~ / 24 A / 2,5 mm <sup>2</sup> 300 V ~ / 20 A / AWG 22-12 400 V ~ / 20,5 A
<b>Cross Connection</b>			
	UK 2,5/2 - 3 - 4 - 10 - 16 - 20	UK 2,5/2 - 3 - 4 - 10 - 16 - 20	UK 2,5/2 - 3 - 4 - 10 - 16 - 20
<b>End Plate</b>			
	NPP / PYK 2,5 - 2FT	NPP / PYK 2,5 - 2 FT	NPP / PYK 2,5 - 3 FT
<b>Test PYK</b>			
	PYK Test	PYK Test	PYK Test
<b>End Bracket</b>			
	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Group Marking</b>			
	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3
<b>Group Marking Carrier</b>			
	ETS 3 PYK 2,5	ETS 3 PYK 2,5	ETS 3 PYK 2,5
<b>Marking Tags</b>			
	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip
<b>Mounting Rails</b>			
	MR 35	MR 35	MR 35

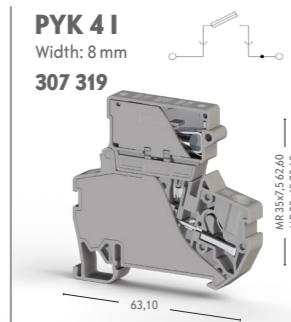
Practical Spring  
Clamp Fuse  
Terminals



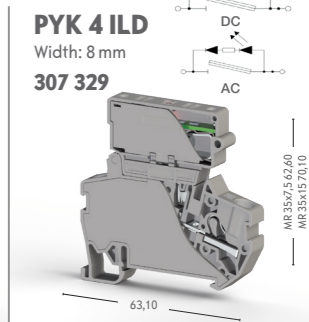
**PYK 4 S**  
Width: 8 mm  
**307 249**



**PYK 4 SLD**  
Width: 8 mm  
**307 259**



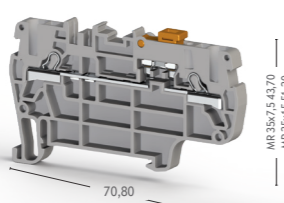
**PYK 4 I**  
Width: 8 mm  
**307 319**



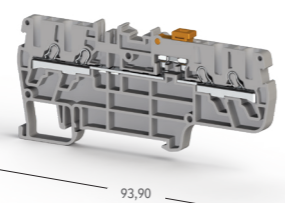
**PYK 4 ILD**  
Width: 8 mm  
**307 329**

<b>Electrical Ratings</b>				
CE (EN 60947-7-3)	500 V ~ / 10 A / 4 mm <sup>2</sup> 300 V ~ / 10 A / AWG 22-10	24 V ~ / 10 A / 4 mm <sup>2</sup> 24 V ~ / 10 A / AWG 22-10	500 V ~ / 10 A / 4 mm <sup>2</sup> 300 V ~ / 10 A / AWG 22-10	24 V ~ / 10 A / 4 mm <sup>2</sup> 24 V ~ / 10 A / AWG 22-10
<b>Ordering Data</b>				
	307 249 (5x20) 307 240 (5x20) 307 289 (5x25) 307 280 (5x25)	307 259 (24V DC) 307 269 (220V AC) 307 299 (24V DC) 307 309 (220V AC)		307 329 (24V DC) 307 339 (220V AC)
<b>Cross Connection</b>				
	UK 6 / 2-3-4-10	UK 6 / 2-3-4-10	UK 6 / 2-3-4-10	UK 6 / 2-3-4-10
<b>End Bracket</b>				
	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Fuse / Fuse Type</b>				
	G/5x20-5x25	G/5x20-5x25	G/6,35x31,75	G/6,35x31,75
<b>Group Marking</b>				
	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3	GE - ME - ME 3
<b>Marking Tags</b>				
	DB 5 - DG 6/5 - DG 10/8	DB 5 - DG 6/5 - DG 10/8	DB 5 - DG 6/5 - DG 10/8	DB 5 - DG 6/5 - DG 10/8
<b>Mounting Rails</b>				
	MR 35	MR 35	MR 35	MR 35

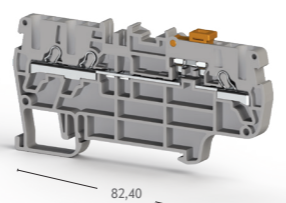
**PYK 2,5 A**  
Width: 5 mm  
307 169



**PYK 2,5 CCA**  
Width: 5 mm  
307 219



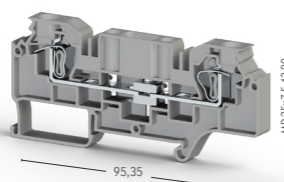
**PYK 2,5 EA**  
Width: 5 mm  
307 459



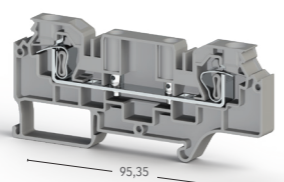
<b>Electrical Ratings</b> CE (EN 60947-7-3)	400 V ~ / 20 A / 2,5 mm <sup>2</sup> 300 V ~ / 16 A / AWG 22-12	400 V ~ / 16 A / 2,5 mm <sup>2</sup> 300 V ~ / 10 A / AWG 22-12	400 V ~ / 16 A / 2,5 mm <sup>2</sup>
<b>Cross Connection</b>	UK 2,5/2 - 3 - 4 - 10 - 16 - 20	UK 2,5/2 - 3 - 4 - 10 - 16 - 20	UK 2,5/2 - 3 - 4 - 10 - 16 - 20
<b>End Plate</b>	NPP / PYK 2,5 A	NPP / PYK 2,5 CCA	NPP / PYK 2,5 EA
<b>Test PYK</b>	PYK Test	PYK Test	PYK Test
<b>End Bracket</b>	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Group Marking</b>	ME - ME 3	ME - ME 3	ME - ME 3
<b>Marking Tags</b>	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip	DB 10/5 - DG 10/5 - DG 10/5T 11.2 Marking Strip
<b>Mounting Rails</b>	MR 35	MR 35	MR 35

## Spring Type Test & Disconnect Terminals

**WGO 5**  
Width: 8 mm  
376 190



**WGO D5**  
Width: 8 mm  
376 290



<b>Electrical Ratings</b> CE (EN 60947-7-1 / EN 60947-7-2)	500 V ~ / 41 A / 16 mm <sup>2</sup>	500 V ~ / 41 A / 6 mm <sup>2</sup>
<b>End Plate</b>	NPP / WGO 5 APP / WGO 5	NPP / WGO 5 APP / WGO 5
<b>End Bracket</b>	KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
<b>Cross Connection</b>	UK 6 / 2-3-4-10	UK 6 / 2-3-4-10
<b>Marking Tags</b>	DG 10/8 - 11.2 Marking Strip	DG 10/8 - 11.2 Marking Strip
<b>Mounting Rails</b>	MR 35	MR 35
<b>Test Plug</b>	TF (Q4)	TF (Q4)

### COLOR ORDER NUMBERS

Color	Beige	Blue	Green	Yellow	Red	Black	White	Orange	Brown	Grey
PYK Series	....0	....1	....2	....3	....4	....5	....6	....7	....8	....9

\* Color code is the last digit of the order number

## 01 Cross Connectors (Push-in Type)

Cat. No.	Type		Pole
476 602	UK 1,5/2	PYK 1,5 M / 1,5 ME / 1,5 MC	2
476 603	UK 1,5/3	PYK 1,5 M / 1,5 ME / 1,5 MC	3
476 604	UK 1,5/4	PYK 1,5 M / 1,5 ME / 1,5 MC	4
476 609	UK 1,5/10	PYK 1,5 M / 1,5 ME / 1,5 MC	10
476 222	UK 2,5/2	PYK 2,5 / 2,5E / 2,5C / 2,5FK / 2,5-2F / 2,5-2FLD / 2,5-M2 FT / 2,5-M2 F / 3F / 3FT / EA / A / CCA	2
476 223	UK 2,5/3	PYK 2,5 / 2,5E / 2,5C / 2,5FK / 2,5-2F / 2,5-2FLD / 2,5-M2 FT / 2,5-M2 F / 3F / 3FT / EA / A / CCA	3
476 224	UK 2,5/4	PYK 2,5 / 2,5E / 2,5C / 2,5FK / 2,5-2F / 2,5-2FLD / 2,5-M2 FT / 2,5-M2 F / 3F / 3FT / EA / A / CCA	4
476 229	UK 2,5/10	PYK 2,5 / 2,5E / 2,5C / 2,5FK / 2,5-2F / 2,5-2FLD / 2,5-M2 FT / 2,5-M2 F / 3F / 3FT / EA / A / CCA	10
474 260	UK 2,5/16	PYK 2,5 / 2,5E / 2,5C / 2,5FK / 2,5-2F / 2,5-2FLD / 2,5-M2 FT / 2,5-M2 F / 3F / 3FT / EA / A / CCA	10
474 200	UK 2,5/20	PYK 2,5 / 2,5E / 2,5C / 2,5FK / 2,5-2F / 2,5-2FLD / 2,5-M2 FT / 2,5-M2 F / 3F / 3FT / EA / A / CCA	10
476 232	UK 4/2	PYK 4 / 4E / 4-2FN	2
476 233	UK 4/3	PYK 4 / 4E / 4-2FN	3
476 234	UK 4/4	PYK 4 / 4E / 4-2FN	4
476 239	UK 4/10	PYK 4 / 4E / 4-2FN	10
476 242	UK 6/2	PYK 6 / 4 S / 4 SLD / 4 I / 4 ILD / WGO 5 / WGO D5	2
476 243	UK 6/3	PYK 6 / 4 S / 4 SLD / 4 I / 4 ILD / WGO 5 / WGO D5	3
476 244	UK 6/4	PYK 6 / 4 S / 4 SLD / 4 I / 4 ILD / WGO 5 / WGO D5	4
476 249	UK 6/10	PYK 6 / 4 S / 4 SLD / 4 I / 4 ILD / WGO 5 / WGO D5	10
476 252	UK 10/2	PYK 10	2
476 253	UK 10/3	PYK 10	3
476 254	UK 10/4	PYK 10	4
476 259	UK 10/10	PYK 10	10
470 142	CS 16/2	PYK 16	2
470 143	CS 16/3	PYK 16	3
470 144	CS 16/4	PYK 16	4
470 145	CS 10/5	PYK 16	5

## 02 End Plates

446 639	NPP	Grey	PYK 1,5 M
446 630	NPP	Beige	PYK 1,5 M
446 649	NPP	Grey	PYK 1,5 ME
446 640	NPP	Beige	PYK 1,5 ME
446 659	NPP	Grey	PYK 1,5 MC
446 650	NPP	Beige	PYK 1,5 MC
446 632T	NPP	Yellow-Green	PYK 1,5 MT
446 642T	NPP	Yellow-Green	PYK 1,5 MET
446 652T	NPP	Yellow-Green	PYK 1,5 MCT
446 449	NPP	Grey	PYK 2,5
446 440	NPP	Beige	PYK 2,5
446 442T	NPP	Yellow-Green	PYK 2,5T
446 619	NPP	Grey	PYK 2,5E
446 610	NPP	Beige	PYK 2,5E
446 612T	NPP	Yellow-Green	PYK 2,5ET
446 629	NPP	Grey	PYK 2,5 EA
446 620	NPP	Beige	PYK 2,5 EA
446 499	NPP	Grey	PYK 2,5 C
446 490	NPP	Beige	PYK 2,5 C
446 492T	NPP	Yellow-Green	PYK 2,5 CT
446 589	NPP	Grey	PYKM 2,5 / PYKMR 2,5
446 580	NPP	Beige	PYKM 2,5 / PYKMR 2,5
446 519	NPP	Grey	PYK 2,5 - 2 F
446 510	NPP	Beige	PYK 2,5 - 2 F
446 529	NPP	Grey	PYK 2,5 - 2FT / 2,5 - 3F
446 520	NPP	Beige	PYK 2,5 - 2FT / 2,5 - 3F

## 02 End Plates

	450 429	NPP	Grey	PYK 2,5 - M2 FT
	450 420	NPP	Beige	PYK 2,5 - M2 FT
	450 439	NPP	Grey	PYK 2,5 - M2 F
	450 430	Npp	Beige	PYK 2,5 - M2 F
	446 519	NPP	Grey	PYK 2,5 - 2 FK - 2 FLD
	446 510	NPP	Beige	PYK 2,5 - 2 FK - 2 FLD
	446 539	NPP	Grey	PYK 2,5 - 3FT
	446 530	NPP	Beige	PYK 2,5 - 3FT
	446 509	NPP	Grey	PYK 2,5 A
	446 500	NPP	Beige	PYK 2,5 A
	446 549	NPP	Grey	PYK 2,5 CCA
	446 540	NPP	Beige	PYK 2,5 CCA
	446 459	NPP	Grey	PYK 4
	446 450	NPP	Beige	PYK 4
	446 452T	NPP	Yellow-Green	PYK 4 T
	446 559	NPP	Grey	PYK 4 E
	446 550	NPP	Beige	PYK 4 E
	446 552T	NPP	Yellow-Green	PYK 4 ET
	446 669	NPP	Grey	PYK 4 - 2 FN
	446 660	NPP	Beige	PYK 4 - 2 FN
	446 469	NPP	Grey	PYK 6
	446 460	NPP	Beige	PYK 6
	446 462T	NPP	Yellow-Green	PYK 6 T
	446 479	NPP	Grey	PYK 10
	446 470	NPP	Beige	PYK 10
	446 472T	NPP	Yellow-Green	PYK 10 T
	450 419	NPP	Grey	PYK 16
	450 410	NPP	Beige	PYK 16
	450 412T	NPP	Yellow-Green	PYK 16 T
	450 359	NPP	Grey	WGO 5 / D5
	450 350	NPP	Beige	WGO 5 / D5

## 03 End Brackets

Cat. No.	Type	Color	MR 35
495 040	KD 3	Beige	MR 35
495 049	KD 3	Grey	MR 35
495 050	KD 4	Beige	MR 35
495 059	KD 4	Grey	MR 35
495 069	KD 5	Grey	MR 15
495 210	KD 7	Beige	MR 35
495 219	KD 7	Grey	MR 35

## 04 Group Marking

Cat. No.	Type	Color	
496 110	GE	Beige	MR 32 / MR 35
496 119	GE	Grey	MR 32 / MR 35
496 259	GE 2	White	AVK 2,5-10 / RD - 4 RD
496 255	GE 3	White	AVK 16-35 / 16 RD - 35 RD
496 12A	ME 1 - 1	Transparent	with KD 4
496 13A	ME 1 - 2	Transparent	with KD 4
496 14A	ME 2 - 2	Transparent	with KD 4
496 300	ME 3	Transparent	with KD 7

## 05 Mounting Rails



500 610	MR 15	15 x 5,5	1 m
500 611	MR 15	15 x 5,5	1 m
500 612	MR 15	15 x 5,5	1 m
500 613	MR 15	15 x 5,5	2 m
500 601	MR 35	35 x 7,5	1 m
500 602	MR 35	35 x 7,5	1 m
500 603	MR 35	35 x 7,5	2 m
500 604	MR 35	35 x 7,5	2 m
500 605	MR 35	35 x 7,5	30 cm
500 606	MR 35	35 x 15	1 m
500 607	MR 35	35 x 15	1 m
500 608	MR 35	35 x 15	2 m
500 609	MR 35	35 x 15	2 m

## 06 PYK Test



498 550	Beige	PYK Test
498 559	Grey	PYK Test
498 650	Beige	PYK TestA
498 659	Grey	PYK TestA

## 07 Group Marking Carrier



498 219	ETS 2 PYK 2,5
498 229	ETS 3 PYK 2,5
498 239	ETS 2 PYK 4

### Electrical Ratings

CE (EN 60947-7-1)	250 V ~ / 24 A / 2,5 mm <sup>2</sup>	250 V ~ / 24 A / 2,5 mm <sup>2</sup>
CE (EN 60947-7-2)		

### Cross Connection

UK 2,5/2 - 3 - 4 - 10 - 16 - 20	UK 2,5/2 - 3 - 4 - 10 - 16 - 20
---------------------------------	---------------------------------

### End Plate

NPP / PYK 2,5 - M2FT	NPP / PYK 2,5 - MF
----------------------	--------------------

### End Bracket

KD 3 - KD 4 - KD 7	KD 3 - KD 4 - KD 7
--------------------	--------------------

### Marking Tags

DB 10/5 - DG 10/5 - DG 10/5T	DG 6/5 - DB 5
11.2 Marking Strip	11.2 Marking Strip

### Mounting Rails

MR 35	MR 35
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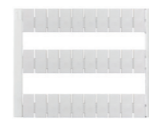
## Push-in Type Series Terminals Accessories

## 08 Marking Strip



1020 100	Marking Strip - 11,2 mm
----------	-------------------------

## 09 Labeling



505 310	DG 10/5
505 380	DG 10/5T
505 320	DG 10/6
505 390	DG 10/6T
505 330	DG 6/5
505 410	DG 10/8
505 430	DG 10/10
503 000	DB 4
505 850	DB 5
502 000	DB 6/4
505 910	DB 10/5
505 915	DB 10/6
505 920	DB 10/6,5

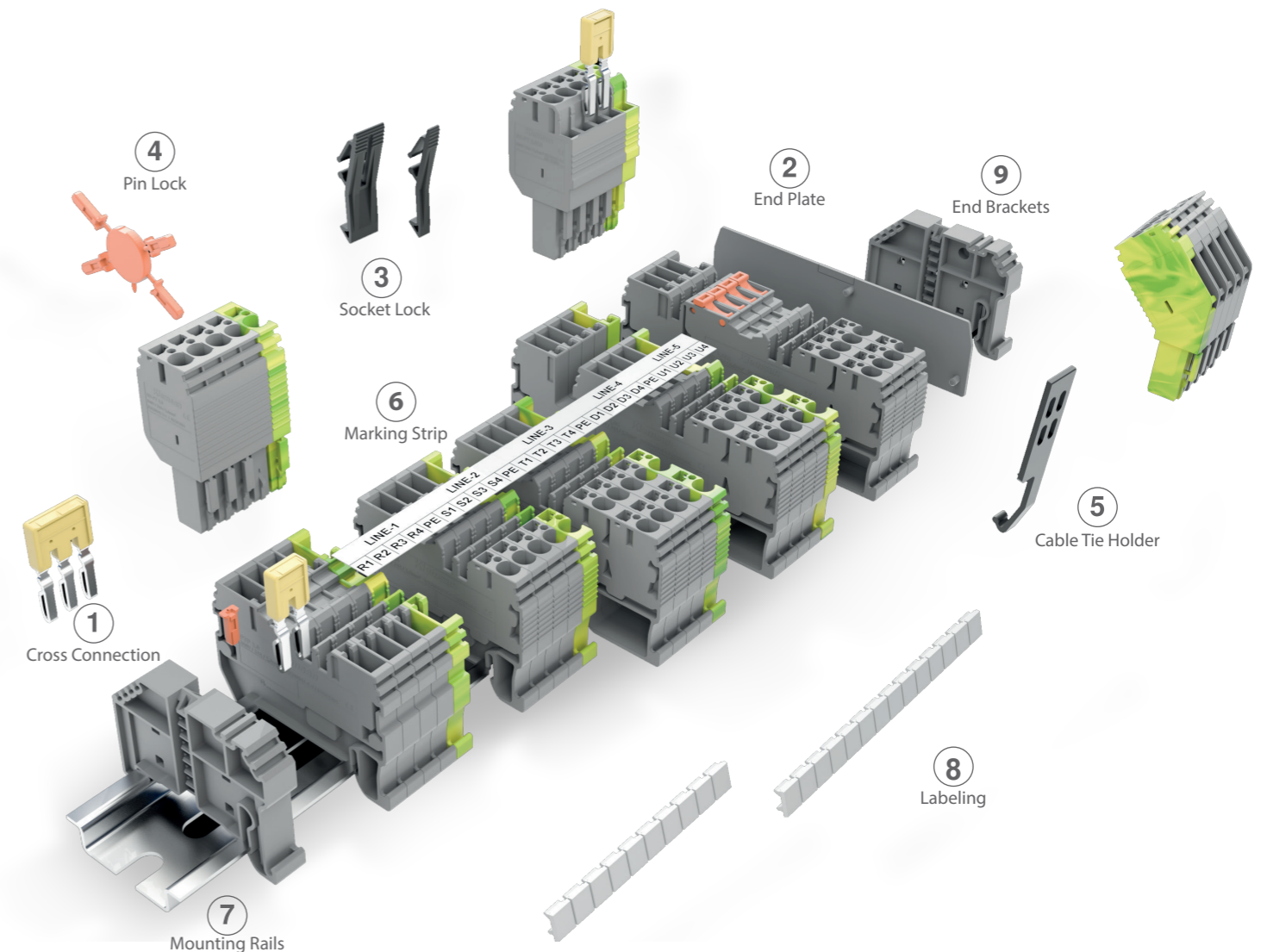


**PYK Test**  
498 559

Suitable for

307 109	PYK 2,5
307 119	PYK 4
307 229	PYK 4 E
307 669	PYK 4 C
307 169	PYK 2,5 A
307 459	PYK 2,5 EA
307 219	PYK 2,5 CCA
307 289	PYK 2,5 C
307 439	PYK 2,5 E
307 129	PYK 6
307 639	PYK 6 E
307 649	PYK 6 C

PYK test terminals, which minimize the time needed for test and control connections, can be marked with Standard marking tags and thermal printer labels. PYK Test terminals, being as a group together, can be used with PYK 2,5 terminals. When plates are added to Test terminals, they can be used with PYK 4 and AVK 4 RD terminals. Without plates, they can be used with PYK 2,5 - PYK 4 - PYK 6 and AVK 2,5 RD terminals.



## Stop Spring to Pin

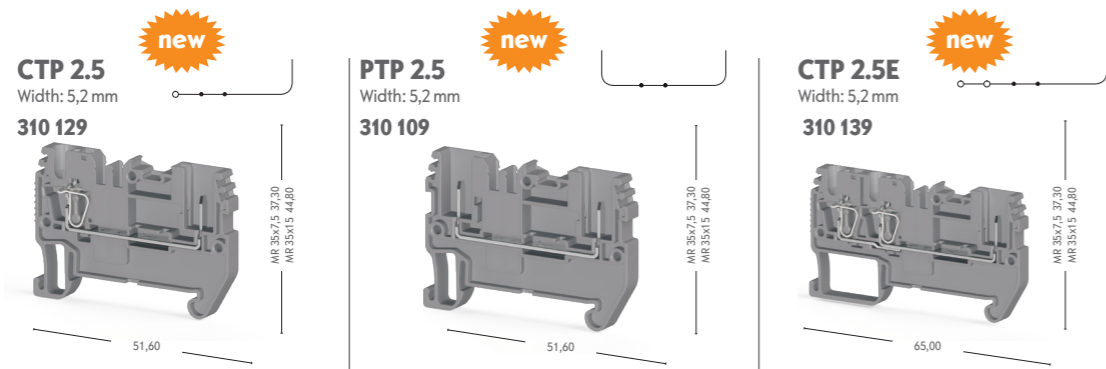
Klemsan StoP terminal blocks are highly recommended for LIFT / ELEVATOR INDUSTRY applications; also for RAILWAY TRANSPORTATION and MARINE INDUSTRIES as well.

By using our brand new series Klemsan StoP Terminal Blocks, you can easily build your signal or power circuits with plugs and sockets.

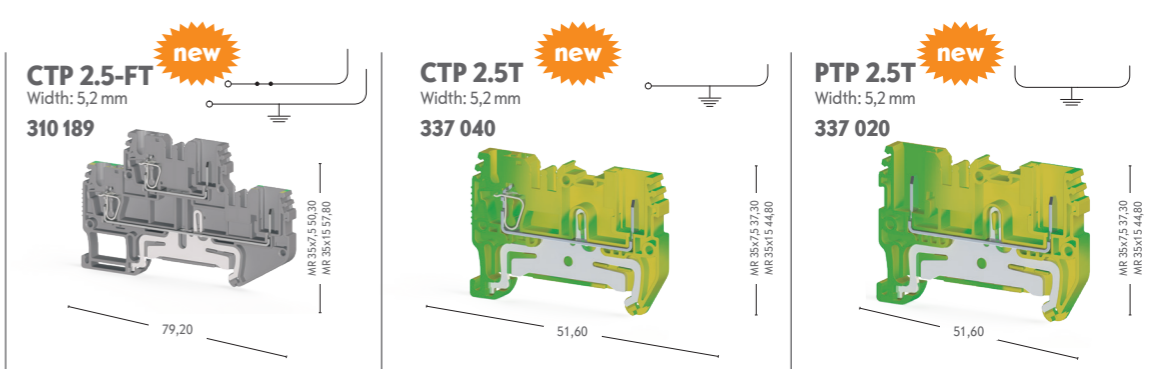
Besides DIN Rail mount types, you can also make coupling of terminals without any DIN Rail fixing. The new StoP terminals enable users to intervene energy breakdowns quickly, making tests faster and safer.

- By using pin locks, user can match the right plugs and sockets. This prevents misconnection.
- Plugs and sockets can be purchased separately to make customized sets.
- Same cross-connectors can be used for both terminals and sockets.
- User can use either strip labels or marking tags for the proper marking of the terminal block set.

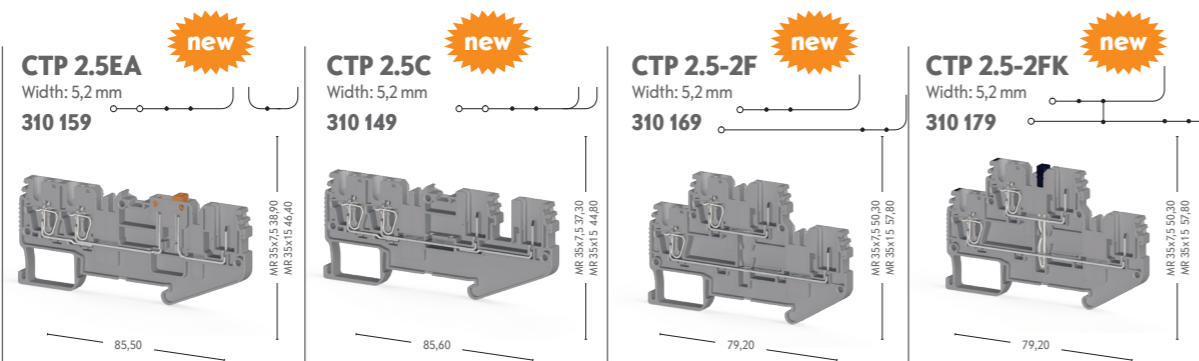




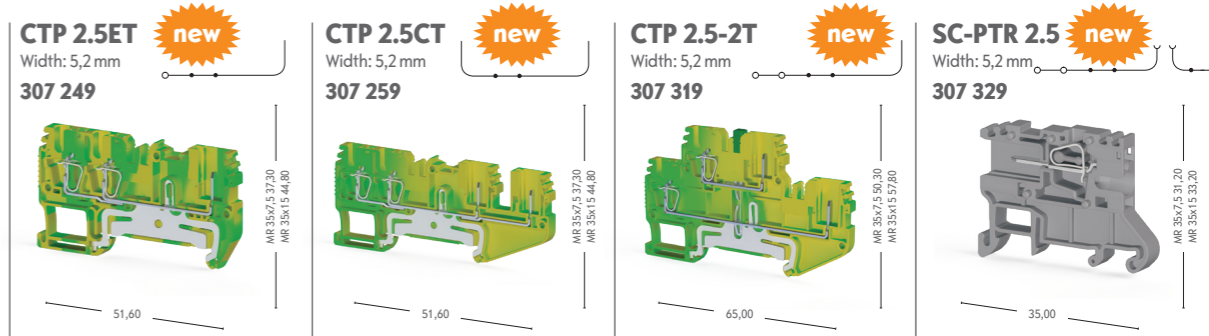
Electrical Ratings	CTP 2.5 Width: 5,2 mm 310 129	PTP 2.5 Width: 5,2 mm 310 109	CTP 2.5E Width: 5,2 mm 310 139
CE (IEC 61984-IEC-60947-7-1)	500 V ~ / 24 A / 2,5 mm <sup>2</sup>	500 V ~ / 24 A / 2,5 mm <sup>2</sup>	500 V ~ / 24 A / 2,5 mm <sup>2</sup>
Cross Connection	CS 2,5 / 2-3-4-10	CS 2,5 / 2-3-4-10	CS 2,5 / 2-3-4-10
End Plate	NPP / CTP 2,5	NPP / PTP 2,5	NPP / CTP 2,5E
Seperation Plates	APP / SRD CTP 2.5	APP / SRD CTP 2.5	APP / CTP 2.5E
End Bracket	KD 3 - KD 4	KD 3 - KD 4	KD 3 - KD 4
Marking Tags	DG 6/5 11.2 Marking Strip	DG 6/5 11.2 Marking Strip	DG 6/5 11.2 Marking Strip
Mounting Rails	MR 35	MR 35	MR 35



Electrical Ratings	CTP 2.5-FT Width: 5,2 mm 310 189	CTP 2.5T Width: 5,2 mm 337 040	PTP 2.5T Width: 5,2 mm 337 020
CE (IEC 61984-IEC-60947-7-1)	500 V ~ / 24 A / 2,5 mm <sup>2</sup>	- V ~ / - A / 2,5 mm <sup>2</sup>	- V ~ / - A / 2,5 mm <sup>2</sup>
Cross Connection	CS 2,5 / 2-3-4-10		
End Plate	NPP / CTP 2,5-2FT	NPP / CTP 2,5T	NPP / PTP 2,5T
Seperation Plates	APP / SRD 2.5 - 2F		
End Bracket	KD 3 - KD 4	KD 3 - KD 4	KD 3 - KD 4
Marking Tags	DG 6/5	DG 6/5 11.2 Marking Strip	DG 6/5 11.2 Marking Strip
Mounting Rails	MR 35	MR 35	MR 35



Electrical Ratings	CTP 2.5EA Width: 5,2 mm 310 159	CTP 2.5C Width: 5,2 mm 310 149	CTP 2.5-2F Width: 5,2 mm 310 169	CTP 2.5-2FK Width: 5,2 mm 310 179
CE (IEC 61984-IEC-60947-7-1)	500 V ~ / 24 A / 2,5 mm <sup>2</sup>	500 V ~ / 24 A / 2,5 mm <sup>2</sup>	500 V ~ / 24 A / 2,5 mm <sup>2</sup>	500 V ~ / 24 A / 2,5 mm <sup>2</sup>
Cross Connection	CS 2,5 / 2-3-4-10	CS 2,5 / 2-3-4-10	CS 2,5 / 2-3-4-10	CS 2,5 / 2-3-4-10 SRD K2,5
End Plate	NPP / CTP 2,5EA	NPP / CTP 2,5C	NPP / CTP 2,5-2F	NPP / CTP 2,5-2FK
Seperation Plates	APP / CTP 2.5E	APP / CTP 2.5E	APP / SRD CTP 2.5-2F	APP / SRD CTP 2.5-2F
End Bracket	KD 3 - KD 4	KD 3 - KD 4	KD 3 - KD 4	KD 3 - KD 4
Marking Tags	DG 6/5 11.2 Marking Strip	DG 6/5 11.2 Marking Strip	DG 6/5	DG 6/5
Mounting Rails	MR 35	MR 35	MR 35	MR 35



Electrical Ratings	CTP 2.5ET Width: 5,2 mm 307 249	CTP 2.5CT Width: 5,2 mm 307 259	CTP 2.5-2T Width: 5,2 mm 307 319	SC-PTR 2.5 Width: 5,2 mm 307 329
CE (IEC 61984-IEC-60947-7-1)	- V ~ / - A / 2,5 mm <sup>2</sup>	- V ~ / - A / 2,5 mm <sup>2</sup>	- V ~ / - A / 2,5 mm <sup>2</sup>	500 V ~ / 20 A / 2,5 mm <sup>2</sup>
End Plate	NPP / CTP 2,5ET	NPP / CTP 2,5CT	NPP / CTP 2,5-2T	NPP / SC-PT 2,5
End Bracket	KD 3 - KD 4	KD 3 - KD 4	KD 3 - KD 4	KD 3 - KD 4
Marking Tags	DG 6/5 11.2 Marking Strip	DG 6/5 11.2 Marking Strip	DG 6/5	DG 6/5
Mounting Rails	MR 35	MR 35	MR 35	MR 35 - MR 15

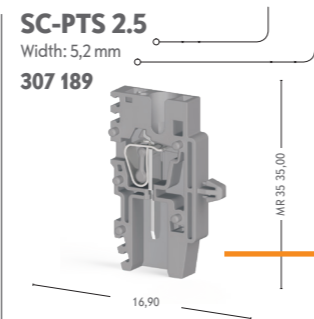
**COLOR**

Color Codes

Blue	Green	Yellow	Red	Black	White	Orange
1	2	3	4	5	6	7

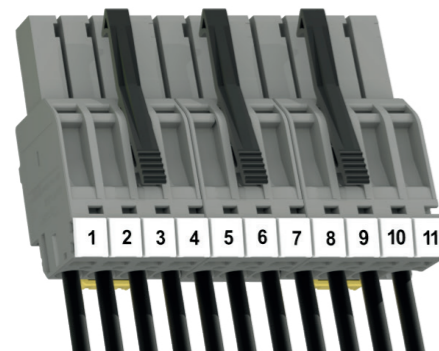
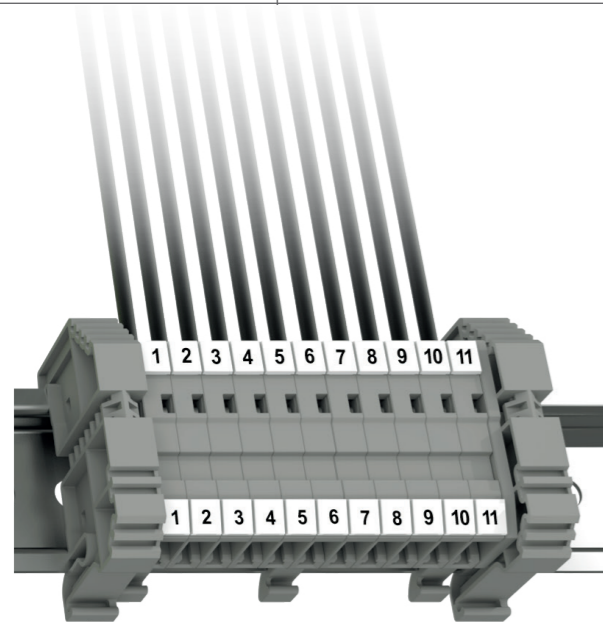


**new**



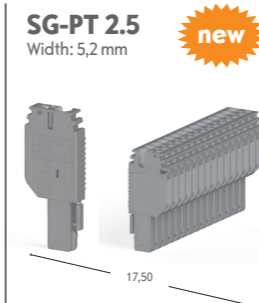
**new**

<b>Electrical Ratings</b> CE (IEC 61984-IEC-60947-7-1)	500 V ~ / 24 A / 2,5 mm <sup>2</sup>	500 V ~ / 24 A / 2,5 mm <sup>2</sup>
<b>End Plate</b>	NPP / SC-PT 2,5	NPP / SC-PT 2,5
<b>Marking Tags</b>	DG 6/5	DG 6/5



**Airborne Connection**

Airborne connection terminals can be used for making quick and safe connections inside the panels or installation ducts.



**new**



**new**



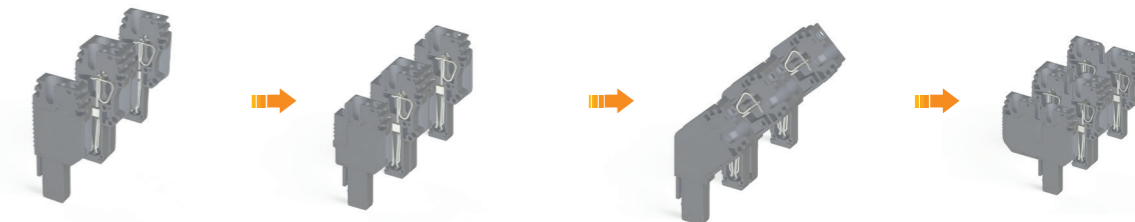
**new**



**new**

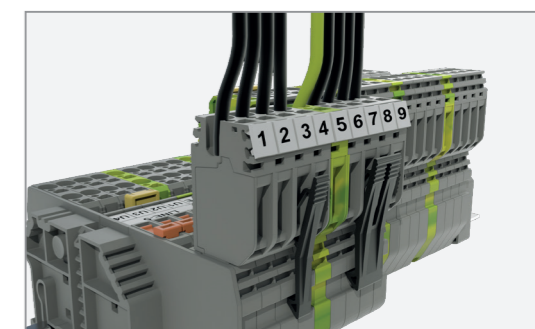
Electrical Ratings	SG-PT 2.5			SG-PT 2.5CS			SG-PT 2.5AN			SG-PT 2.5DB		
CE (IEC 61984-IEC-60947-7-1)	500 V ~ / 24 A / 2,5 mm <sup>2</sup>			500 V ~ / 24 A / 2,5 mm <sup>2</sup>			500 V ~ / 24 A / 2,5 mm <sup>2</sup>			500 V ~ / 24 A / 2,5 mm <sup>2</sup>		
Cross Connection				CS 2,5 / 2-3-4-10						CS 2,5 / 2-3-4-10		
Marking Tags	DG 6/5			DG 6/5			DG 6/5			DG 6/5		
Ordering Data	Type	Cat. No.	Qty.	Type	Cat. No.	Qty.	Type	Cat. No.	Qty.	Type	Cat. No.	Qty.
SG-PT 2.5-1	310 209	50	SG-PT 2.5CS-1	310 389	50	SG-PT 2.5AN-1	310 749	50	SG-PT 2.5DB-1	310 569	50	
SG-PT 2.5-2	310 219	50	SG-PT 2.5CS-2	310 399	50	SG-PT 2.5AN-2	310 759	50	SG-PT 2.5DB-2	310 579	50	
SG-PT 2.5-3	310 229	50	SG-PT 2.5CS-3	310 409	50	SG-PT 2.5AN-3	310 769	50	SG-PT 2.5DB-3	310 589	50	
SG-PT 2.5-4	310 239	50	SG-PT 2.5CS-4	310 419	50	SG-PT 2.5AN-4	310 779	50	SG-PT 2.5DB-4	310 599	50	
SG-PT 2.5-5	310 249	50	SG-PT 2.5CS-5	310 429	50	SG-PT 2.5AN-5	310 789	50	SG-PT 2.5DB-5	310 609	50	
SG-PT 2.5-6	310 259	25	SG-PT 2.5CS-6	310 439	25	SG-PT 2.5AN-6	310 799	25	SG-PT 2.5DB-6	310 619	25	
SG-PT 2.5-7	310 269	25	SG-PT 2.5CS-7	310 449	25	SG-PT 2.5AN-7	310 809	25	SG-PT 2.5DB-7	310 629	25	
SG-PT 2.5-8	310 279	25	SG-PT 2.5CS-8	310 459	25	SG-PT 2.5AN-8	310 819	25	SG-PT 2.5DB-8	310 639	25	
SG-PT 2.5-9	310 289	25	SG-PT 2.5CS-9	310 469	25	SG-PT 2.5AN-9	310 829	25	SG-PT 2.5DB-9	310 649	25	
SG-PT 2.5-10	310 299	25	SG-PT 2.5CS-10	310 479	25	SG-PT 2.5AN-10	310 839	25	SG-PT 2.5DB-10	310 659	25	
SG-PT 2.5-11	310 309	10	SG-PT 2.5CS-11	310 489	10	SG-PT 2.5AN-11	310 849	10	SG-PT 2.5DB-11	310 669	10	
SG-PT 2.5-12	310 319	10	SG-PT 2.5CS-12	310 499	10	SG-PT 2.5AN-12	310 859	10	SG-PT 2.5DB-12	310 679	10	
SG-PT 2.5-13	310 329	10	SG-PT 2.5CS-13	310 509	10	SG-PT 2.5AN-13	310 869	10	SG-PT 2.5DB-13	310 689	10	
SG-PT 2.5-14	310 339	10	SG-PT 2.5CS-14	310 519	10	SG-PT 2.5AN-14	310 879	10	SG-PT 2.5DB-14	310 699	10	
SG-PT 2.5-15	310 349	10	SG-PT 2.5CS-15	310 529	10	SG-PT 2.5AN-15	310 889	10	SG-PT 2.5DB-15	310 709	10	
<b>Other Types</b>	<b>Cat. No.</b>	<b>Qty.</b>	<b>Other Types</b>	<b>Cat. No.</b>	<b>Qty.</b>	<b>Other Types</b>	<b>Cat. No.</b>	<b>Qty.</b>	<b>Other Types</b>	<b>Cat. No.</b>	<b>Qty.</b>	
SG-PT 2.5-1	310 202T	50	SG-PT 2.5CS-1	310 382T	50	SG-PT 2.5AN-1	310 742T	50	SG-PT 2.5DB-1	310 562T	50	
SG-PT 2.5-1L	310 359	10	SG-PT 2.5CS-1L	310 539	10	SG-PT 2.5AN-1L	310 899	10	SG-PT 2.5DB-1L	310 719	10	
SG-PT 2.5G-1M	310 369	10	SG-PT 2.5GCS-1M	310 449	10	SG-PT 2.5GAN-1M	310 909	10	SG-PT 2.5GDB-1M	310 729	10	
SG-PT 2.5G-1R	310 379	10	SG-PT 2.5GCS-1R	310 559	10	SG-PT 2.5GAN-1R	310 919	10	SG-PT 2.5GDB-1R	310 739	10	

Just combine single units of L-R products for left and right ends, add desired quantities of M products in-between to make your custom sockets.



**Cable Tie Mount**

You can use a cable tie to hold all cables together assembled to the socket by using cable tie mount.



**Socket Locks**

Extra optional locks prevent your circuits from excessive vibrations. Sockets can be removed from terminals by simply pushing the clip upwards.

### 01 Cross Connectors (Push-in Type)

Cat. No.	Type		Pole
470 102	CS 2,5/2		2
470 103	CS 2,5/3	CTP 2,5 / PTP 2,5 / CTP 2,5 E / CTP 2,5EA / CTP 2,5C / CTP 2,5-2F / CTP 2,5-2FK / CTP 2,5-2FT / SG-PT 2,5CS 1...15 / SG-PT 2,5DB 1...15 / SG-PT 2,5CS-1L / SG-PT 2,5GCS-1M / SG-PT 2,5GCS-1R	3
470 104	CS 2,5/4		4
470 105	CS 2,5/5		5
470 109	CS 2,5/10		10
470 201	SRD K 2,5	CTP 2,5-2F / CTP 2,5-FT	1
470 202	SRD K 2,5	CTP 2,5-2F / CTP 2,5-FT	1



### 02 End Plates

451 059	NPP	Grey	CTP 2,5 / PTP 2,5
451 089	NPP	Grey	CTP 2,5E
451 099	NPP	Grey	CTP 2,5EA / CTP 2,5C
451 079	NPP	Grey	CTP 2,5-2F / CTP 2,5-2FK / CTP 2,5-FT
451 052T	NPP	Yellow-Green	CTP 2,5 T / PTP 2,5T
451 082T	NPP	Yellow-Green	CTP 2,5-ET
451 092T	NPP	Yellow-Green	CTP 2,5-CT
451 072T	NPP	Yellow-Green	CTP 2,5-2T
451 119	NPP	Grey	SC-PT 2,5

### 04 Pin Lock

469 005	SG-L	SG-PT 2.5 SG-PT 2.5CS SG-PT 2.5AN SG-PT 2.5DB
469 015	SG-L2	
469 027	SG-N	CTP 2.5 PTP 2.5 CTP 2.5E CTP 2.5EA CTP 2.5C CTP 2.5-2F CTP 2.5-2FK CTP 2.5-FT CTP 2.5T PTP 2.5T CTP 2.5ET CTP 2.5CT CTP 2.5-2T

### 03 Socket Lock

469 005	SG-L	SG-PT 2.5 SG-PT 2.5CS SG-PT 2.5AN SG-PT 2.5DB
469 015	SG-L2	

### 05 Cable Tie Holder

469 035	SG-P	SG-PT 2.5 SG-PT 2.5CS SG-PT 2.5AN SG-PT 2.5DB
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### 07 Mounting Rails

500 601	MR 15	35 x 7,5	1 m	CTP 2.5 PTP 2.5 CTP 2.5E CTP 2.5EA CTP 2.5C CTP 2.5-2F CTP 2.5-2FK CTP 2.5-FT CTP 2.5T PTP 2.5T CTP 2.5ET CTP 2.5CT CTP 2.5-2T SC-PTR 2.5
500 602	MR 15	35 x 7,5	1 m	
500 606	MR 15	35 x 15	1 m	
500 607	MR 15	35 x 15	1 m	

### 09 End Brackets

Cat. No.	Type	Color	DIN Rail
495 049	KD 3	Grey	MR 35
495 059	KD 4	Grey	MR 35

### 06 Marking Strip

1020 100	Marking Strip - 11,2 mm
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### 08 Labeling

505 330	DG 6/5
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### 10 Test Plug

493 020	TF02	CTP 2.5 CTP 2.5E CTP 2.5EA CTP 2.5C CTP 2.5-2F CTP 2.5-2FK CTP 2.5-FT CTP 2.5T CTP 2.5ET CTP 2.5CT CTP 2.5-2T SG-PT 2.5 SG-PT 2.5CS SG-PT 2.5AN SG-PT 2.5DB
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### 11 Screwdriver

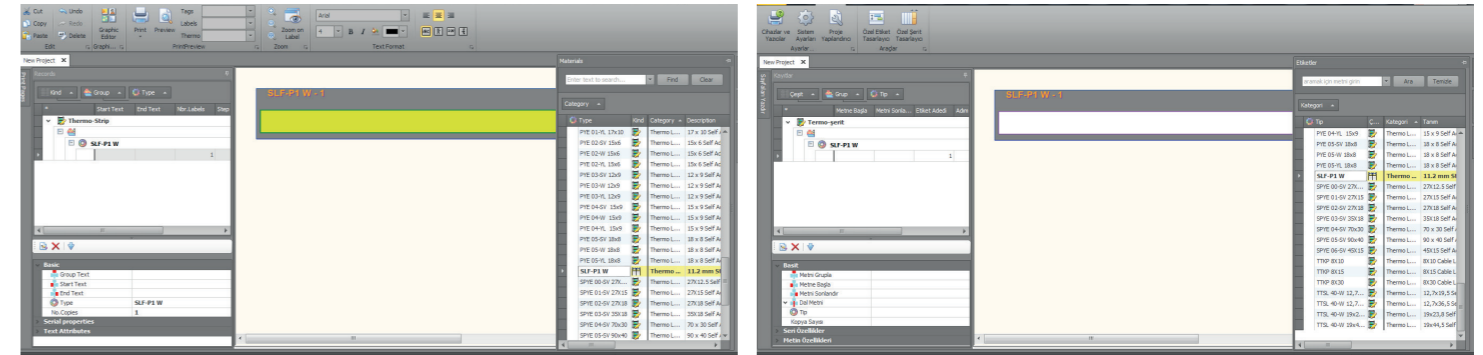
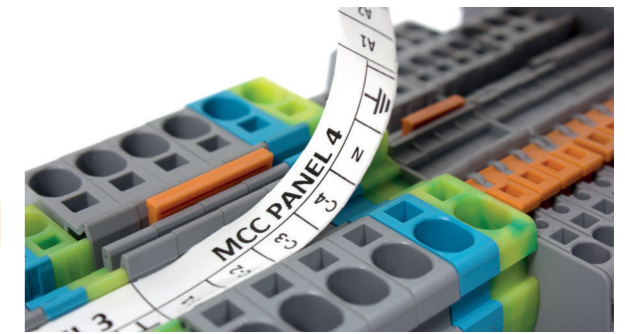
560 010	KT1	Compatible with all StoP products.
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## Klemark / Labeling with Thermal Printer

### Klemark

Klemark-Klemsan new thermal printer is used for labeling practical spring clamp terminals (PYK). It provides serial and practical solution to the user, as well as high printing speed and resolution of 300 dpi. Marking strip printed on Thermal printer by using Klemark software, provides easy and fast solution to label each cross sections of Push-in Series terminal blocks.

Cat. No.	Product	Resolution	Max. Width (mm)	Qty.
808 452	KL-TX300 (No Display)	300 dpi	106	1



Cat. No.	Product	Color	Width (mm)	Length (mm)	Qty.
1020 010	Klemark Ribbon	Black	30	300	1
1020 011	Klemark Ribbon	Black	50	300	1
1020 012	Klemark Ribbon	Black	110	300	1

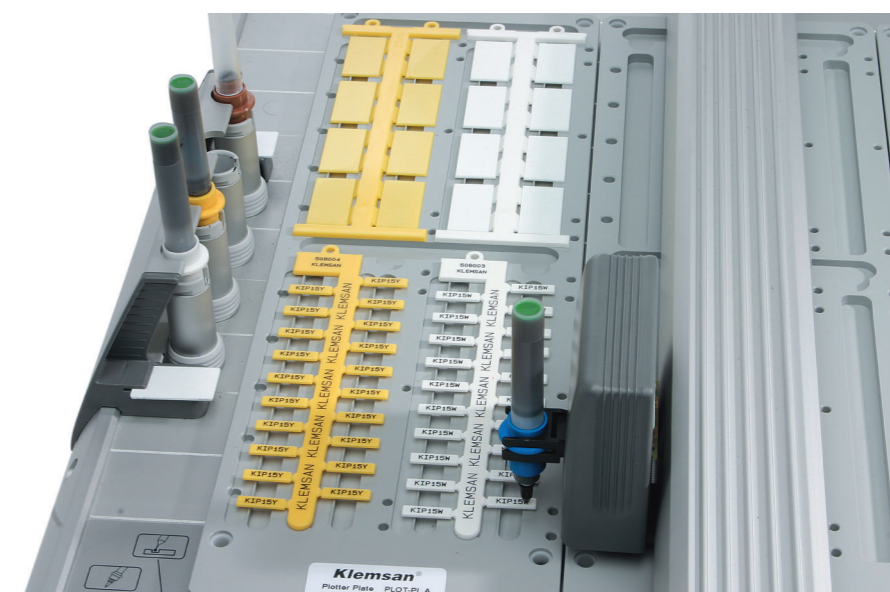


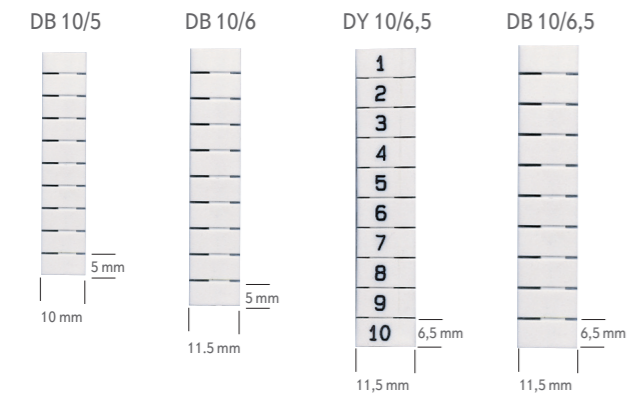
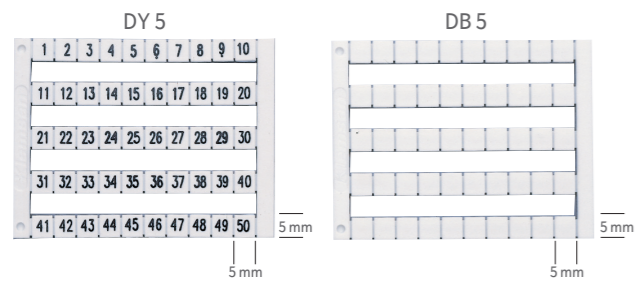
**Klemark Software\*** was developed to easily design and print tags with the help of thermal printer.  
\* This software is given free of charge while buying Klemark Printer.

### Pen Plotter System

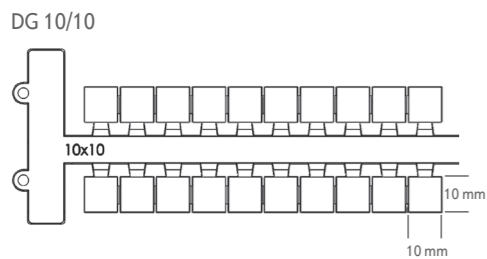
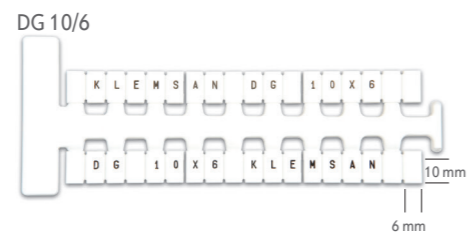
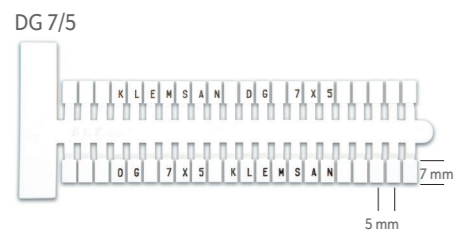
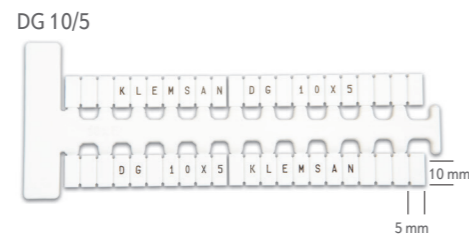
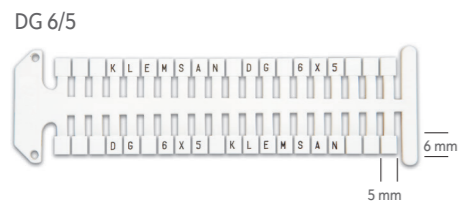
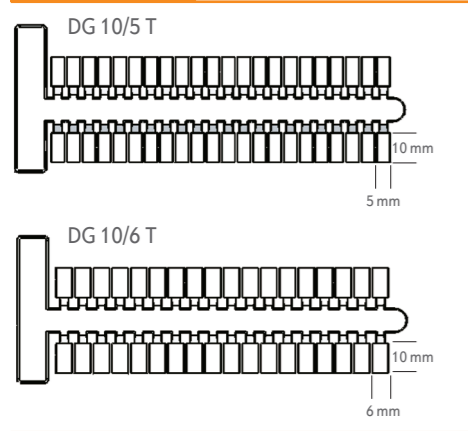
Pen Plotter System is the labeling system which consists of one plotter and PC. System enables to label various kinds of tags by specially developed software. User can follow up by looking at the monitor and choose the right tag to be written easily. Marking is done on the standard polycarbon made blank tags which are resistible to rough environment conditions (dust, dirt and oil), frictions and ageing. System has a user friendly simple program working with Windows Operating System, and allows to import data from other files, such as E-Plan and Excel files.

Cat. No.	Product	Set of Items	Qty.
807 007	KLM-PS (A4) Basic Set	Basic A4 Plotter / Hattat Software / A Type Support Plate / 0.35 mm Pen with Cartridge / 5x1 Cartridge	1





### T Series Dekafix



Marking Tags for Plotter

Cat. No	Type	Description
505 850	DB 5	Without Print
505 910	DB 10/5	Without Print
505 915	DB 10/6	Without Print
505 920	DB 10/6,5	Without Print
505 330	DG 6/5	Without Print
505 310	DG 10/5	Without Print
505 320	DG 10/6	Without Print
505 340	DG 7/5	Without Print
505 380	DG 10/5 T	Without Print
505 390	DG 10/6 T	Without Print
505 410	DG 10/8	Without Print
505 430	DG 10/10	Without Print
508 511	KOIP SM W	Without Print

Marking Tags with Standart Print

Cat. No	Type	Description
505 000	DY 5	0
505 001	DY 5	1
505 002	DY 5	2
505 003	DY 5	3
505 004	DY 5	4
505 005	DY 5	5
505 006	DY 5	6
505 007	DY 5	7
505 008	DY 5	8
505 009	DY 5	9
505 010	DY 5	10
505 020	DY 5	1-10
505 021	DY 5	11-20
505 022	DY 5	21-30
505 023	DY 5	31-40
505 024	DY 5	41-50
505 030	DY 5	10, 20, 30, ..... 100
505 040	DY 5	1-50
505 041	DY 5	51-100
505 042	DY 5	101-150
505 043	DY 5	151-200
505 044	DY 5	201-250
505 045	DY 5	251-300
505 046	DY 5	301-350
505 047	DY 5	351-400
505 048	DY 5	401-450
505 049	DY 5	451-500
505 050	DY 5	501-550
505 051	DY 5	551-600
505 052	DY 5	601-650
505 053	DY 5	651-700
505 054	DY 5	701-750
505 055	DY 5	751-800
505 056	DY 5	801-850
505 057	DY 5	851-900
505 058	DY 5	901-950
505 059	DY 5	951-999
505 060	DY 5	A
505 061	DY 5	B
505 062	DY 5	C
505 063	DY 5	D
505 064	DY 5	E
505 065	DY 5	F
505 066	DY 5	G
505 067	DY 5	H
505 068	DY 5	I
505 069	DY 5	J
505 070	DY 5	K
505 071	DY 5	L
505 072	DY 5	M
505 073	DY 5	N
505 074	DY 5	O
505 075	DY 5	P
505 076	DY 5	Q
505 077	DY 5	R
505 078	DY 5	S
505 079	DY 5	T
505 080	DY 5	U
505 081	DY 5	V
505 082	DY 5	W
505 083	DY 5	X
505 084	DY 5	Y
505 085	DY 5	Z
505 090	DY 5	L1
505 091	DY 5	L2
505 092	DY 5	L3
505 093	DY 5	RSTN
505 094	DY 5	Mp
505 095	DY 5	+
505 096	DY 5	-
505 097	DY 5	÷
505 098	DY 5	PE
505 201	DY 10/6,5	1-10
505 202	DY 10/6,5	11-20
505 203	DY 10/6,5	21-30
505 204	DY 10/6,5	31-40
505 205	DY 10/6,5	41-50
505 206	DY 10/6,5	51-60
505 207	DY 10/6,5	61-70
505 208	DY 10/6,5	71-80
505 209	DY 10/6,5	81-90
505 210	DY 10/6,5	91-100

## Printable Heatshrink



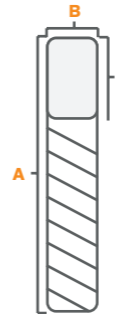
Cat. No.	Type	Cable Cross-Section	Length	Color	Qty.
new 579 010	HSL 02-Y	0.25 - 1 mm <sup>2</sup>	200 m	Yellow	1
new 579 011	HSL 03-Y	1 - 1.5 mm <sup>2</sup>	200 m	Yellow	1
new 579 012	HSL 4.5-Y	2.5 mm <sup>2</sup>	100 m	Yellow	1
new 579 013	HSL 06-Y	4 - 6 mm <sup>2</sup>	100 m	Yellow	1
new 579 014	HSL 10-Y	6 - 10 mm <sup>2</sup>	100 m	Yellow	1
new 1020 060	KL-TX 300	Heatshrink adapter for KL-TX 300			1

## Marking Strip for Terminal Blocks

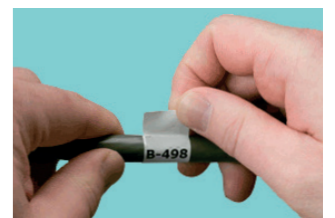


Cat. No.	Product	Color	Width (mm)	Length (m)	Qty.
1020 100	SLF-P1W	White	11,2	15	1

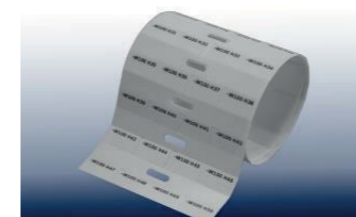
## Self-Laminated Cable Labels



Cat. No.	Type	Cable Diameter (mm)	Print Area (mm)	Type	Color	Qty.
new 808 070	TTSL 40-W 12.7x19.5 D3	D = 3	12.7 x 9.5	Roll	White	5.000
new 808 071	TTSL 40-W 19x23.8 D4	D = 4	19.0 x 9.5	Roll	White	5.000
new 808 072	TTSL 40-W 12.7x36.5 D7	D = 7	12.7 x 12.7	Roll	White	5.000
new 808 073	TTSL 40-W 25.4x36.5 D7	D = 7	25.4 x 12.7	Roll	White	5.000
new 808 074	TTSL 40-W 19x44.5 D10	D = 10	19.0 x 12.7	Roll	White	5.000
new 808 075	TTSL 40-W 25.4x57.5 D12	D = 12	25.4 x 19.0	Roll	White	1.500

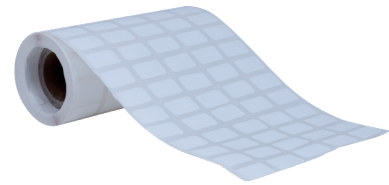


## Cable Labels for Transparent Sleeves



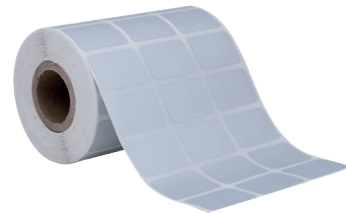
Cat. No.	Type	Print Area (mm)	Color	Qty.
new 808 061	TTKP 8X10	4 x 10	White	4.000
new 808 062	TTKP 8X15	4 x 15	White	4.000
new 808 063	TTKP 8X30	4 x 30	White	2.500

## Panel Interior Labels



Cat. No.	Type	Print Area (mm)	Color	Qty.
808 403	PYE-01 Y	17 x 10	Yellow	2.500
<b>new</b> 808 419	PYE-01 W	17 x 10	White	2.500
<b>new</b> 808 420	PYE-01 S	17 x 10	Silver	2.500
808 404	PYE-02 Y	15 x 6	Yellow	2.500
<b>new</b> 808 421	PYE-02 W	15 x 6	White	2.500
<b>new</b> 808 422	PYE-02 S	15 x 6	Silver	2.500
<b>new</b> 808 405	PYE-03 Y	12 x 9	Yellow	2.500
<b>new</b> 808 423	PYE-03 W	12 x 9	White	2.500
<b>new</b> 808 424	PYE-03 S	12 x 9	Silver	2.500
808 406	PYE-04 Y	15 x 9	Yellow	2.500
<b>new</b> 808 425	PYE-04 W	15 x 9	White	2.500
<b>new</b> 808 426	PYE-04 S	15 x 9	Silver	2.500
808 409	PYE-05 Y	20 x 8	Yellow	2.500
<b>new</b> 808 427	PYE-05 W	20 x 8	White	2.500
<b>new</b> 808 428	PYE-05 S	20 x 8	Silver	2.500

## Panel Surface Labels



Cat. No.	Type	Print Area	Color	Qty.
<b>new</b> 808 429	SPYE-00 S	27 x 12,5 mm	Silver	2.500
<b>new</b> 808 430	SPYE-01 S	27 x 15 mm	Silver	2.500
808 400	SPYE-02 S	27 x 18 mm	Silver	2.500
<b>new</b> 808 431	SPYE-03 S	35 x 18 mm	Silver	2.500
808 401	SPYE-04 S	70 x 30 mm	Silver	2.500
808 402	SPYE-05 S	90 x 40 mm	Silver	2.500
<b>new</b> 808 432	SPYE-06 S	45 x 15 mm	Silver	2.000
<b>new</b> 808 064	ETPS 40 - SV 27x12,5	27 x 12,5 mm	Silver	200
<b>new</b> 808 065	ETPS 40 - SV 27x15	27 x 15 mm	Silver	150
<b>new</b> 808 066	ETPS 40 - SV 35x18	35 x 18 mm	Silver	125
<b>new</b> 808 067	ETPS 40 - SV 45x15	45 x 15 mm	Silver	125
<b>new</b> 808 068	ETPS 40 - SV 60x30	60 x 30 mm	Silver	125
<b>new</b> 808 069	ETPS 40 - SV 90x45	90 x 45 mm	Silver	100

\* ETPS 40 0.08 mm kalınlıktadır.

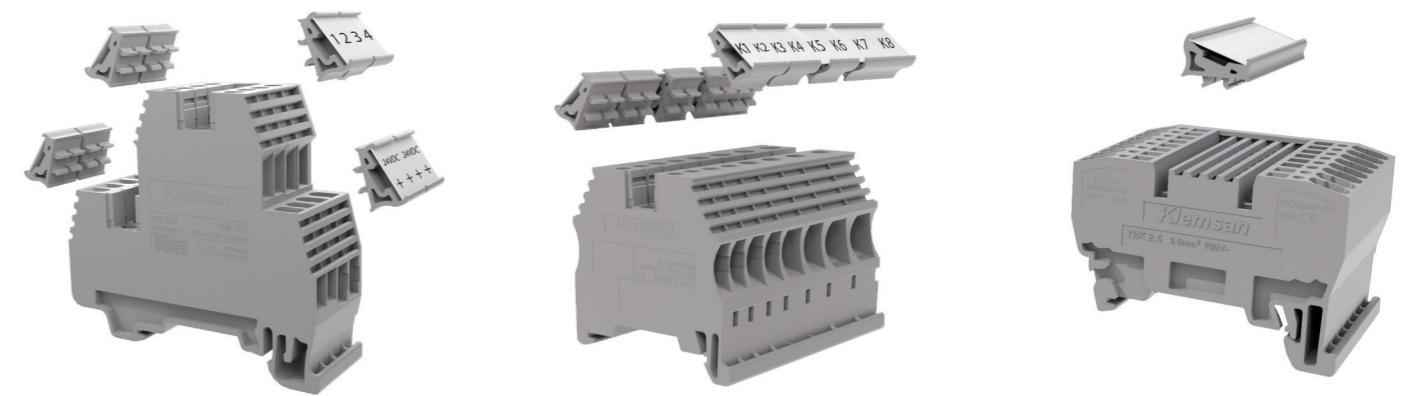
## Self-Adhesive Label Strips



Cat. No.	Type	Width (mm)	Length (m)	Color	Qty.
<b>new</b> 808 433	LSL-03 W	30	20	White	1
<b>new</b> 808 434	LSL-03 SV	30	20	Silver	1
<b>new</b> 808 435	LSL-03 YL	30	20	Yellow	1
<b>new</b> 808 436	LSL-05 W	50	20	White	1
<b>new</b> 808 437	LSL-05 SV	50	20	Silver	1
<b>new</b> 808 438	LSL-05 YL	50	20	Yellow	1
<b>new</b> 808 439	LSL-08 W	80	20	White	1
<b>new</b> 808 440	LSL-08 SV	80	20	Silver	1
<b>new</b> 808 441	LSL-08 YL	80	20	Yellow	1

## Group Marking for Multilevel Practical Spring Clamp Terminals

Cat. No.	Product	Description	Compatible with	Qty.
498 210	ETS 2 PYK 2,5	Group Marking Carrier (two levels) Beige	PYK 2,5 - 2 F / PYK 2,5 - 2 FK / PYK 2,5 - 3 F PYK 2,5 - 2 FT / PYK 2,5 - 3 FT / PYK 2,5 2 FLD	50
498 219	ETS 2 PYK 2,5	Group Marking Carrier (two levels) Grey	PYK 2,5 - 2 F / PYK 2,5 - 2 FK / PYK 2,5 - 3 F PYK 2,5 - 2 FT / PYK 2,5 - 3 FT / PYK 2,5 2 FLD	50
498 217	ETS 2 PYK 2,5	Group Marking Carrier (two levels) Orange	PYK 2,5 - 2 F / PYK 2,5 - 2 FK / PYK 2,5 - 3 F PYK 2,5 - 2 FT / PYK 2,5 - 3 FT / PYK 2,5 2 FLD	50
498 220	ETS 3 PYK 2,5	Group Marking Carrier (three levels) Beige	PYK 2,5 - 3 F / PYK 2,5 - 2 FT / PYK 2,5 - 3 FT	50
498 229	ETS 3 PYK 2,5	Group Marking Carrier (three levels) Grey	PYK 2,5 - 3 F / PYK 2,5 - 2 FT / PYK 2,5 - 3 FT	50
498 227	ETS 3 PYK 2,5	Group Marking Carrier (three levels) Orange	PYK 2,5 - 3 F / PYK 2,5 - 2 FT / PYK 2,5 - 3 FT	50
498 230	ETS 2 PYK 4	Group Marking Carrier (two levels) Beige	PYK 4 - 2FN	25
498 239	ETS 2 PYK 4	Group Marking Carrier (two levels) Grey	PYK 4 - 2FN	25
498 237	ETS 2 PYK 4	Group Marking Carrier (two levels) Orange	PYK 4 - 2FN	25
<b>new</b> 498 289	ETS	Group Marking Carrier for Screw Terminals - Grey	AVK 2,5, AVK 10, AVK 4, AVK 6, AVK 25 RD, AVK 35 RDS, AVK 35 IRDS, AVK 16 RD, AVK 16, AVK 35 RD, AVK 2,5 / 4 TK, AVK 6 TK, AVK 10 TK, AVK 35 T RD, ACK 35 T RDS, ACK 35 T IRDS, AVK 2,5 RD, AVK 4 RD, AVK 2,5 CC, AVK 2,5 T RD, AVK 4 T RD, AVK 2,5 CCT, AVK 4 CCT, AVK 10 T RD 4, AVK 10 RD 4, AVK 4 CC, AVK 2,5 F, AVK 2,5 CF, AVK 95B, AVK 150B, AVK 240B, PIK 2,5 N, PIK 2,5 NT, PIK 4N, PIK 4 NT, ASK 3 A, AVK 2,5 CCA, AVK 4 CCA, ASK 4 B, WGO 3, WGO 1, WGL 1, YBK 2,5, YBK 4, YBK 6, YBK 10, YBK 2,5 T, YBK 4 T, YBK 6 T, YBK 10 T, YBK 2,5 A, YBK 2,5 E, YBK 2,5 C, YBK 2,5 CT, YBK 2,5 ET	100



It is possible to use marking strip for the products listed which originally do not support strip labelling by using compatible tools.

## Narrow Slotted Self Adhesive

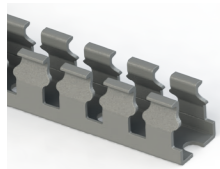
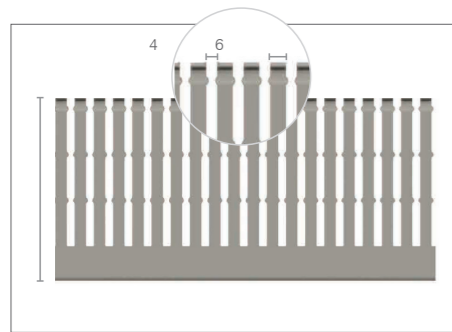


- Operating Temperature: -15°C to 60°C
- Standard Length: 2 meters
- Color Option: RAL 7030 Grey
- Complies with RoHS regulations
- Complies with IEC 60695-2-1 and EN 50085-2-3 standards
- Certificates: VDE, UL, cULus, CE and GOST

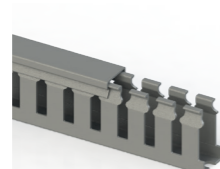
Order No.	Type	Dimensions WxH (mm)	Color	Qty.
551 060YP	KKC 1518	15x18	Grey	122x2 m
551 070YP	KKC 1530	15x30	Grey	104x2 m
551 080YP	KKC 1540	15x40	Grey	80x2 m
551 090YP	KKC 1560	15x60	Grey	42x2 m

## Narrow Slotted

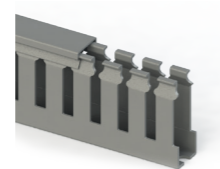
Order No.	Type	Dimensions WxH (mm)	Color	Qty.
551 060	KKC 1518	15x18	Grey	126x2 m
551 070	KKC 1530	15x30	Grey	106x2 m
551 080	KKC 1540	15x40	Grey	80x2 m
551 090	KKC 1560	15x60	Grey	42x2 m
551 010	KKC 2530	25x30	Grey	50x2 m
551 011	KKC 2540	25x40	Grey	50x2 m
551 012	KKC 2560	25x60	Grey	30x2 m
551 030	KKC 2580	25x80	Grey	28x2 m
551 031	KKC 2510	25x100	Grey	22x2 m
551 013	KKC 4040	40x40	Grey	26x2 m
551 014	KKC 4060	40x60	Grey	18x2 m
551 015	KKC 4080	40x80	Grey	20x2 m
551 032	KKC 4010	40x100	Grey	14x2 m
551 016	KKC 6040	60x40	Grey	18x2 m
551 017	KKC 6060	60x60	Grey	12x2 m
551 018	KKC 6080	60x80	Grey	12x2 m
551 033	KKC 6010	60x100	Grey	18x2 m
551 034	KKC 8040	80x40	Grey	18x2 m
551 019	KKC 8060	80x60	Grey	14x2 m
551 020	KKC 8080	80x80	Grey	12x2 m
551 035	KKC 8010	80x100	Grey	12x2 m
551 021	KKC 1006	100x60	Grey	10x2 m
551 022	KKC 1008	100x80	Grey	8x2 m
551 036	KKC 1001	100x100	Grey	12x2 m
551 023	KKC 1206	120x60	Grey	8x2 m
551 024	KKC 1208	120x80	Grey	6x2 m
551 025	KKC 1201	120x100	Grey	10x2 m
551 040	KKC 1501	150x100	Grey	8x2 m



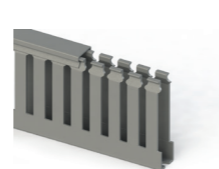
15x18



15x30

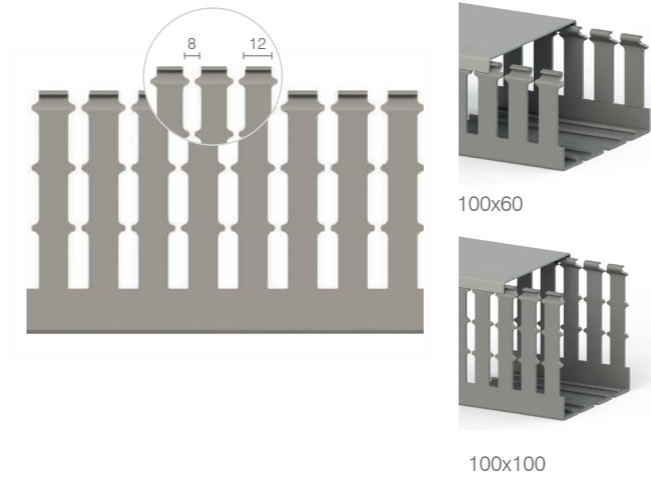


15x40



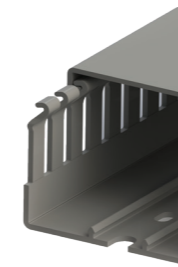
15x60

## Wide Slotted



Order No.	Type	Dimensions WxH (mm)	Color	Qty.
551 014WS	KKC 4060	40x60	Grey	16x2 m
551 015WS	KKC 4080	40x80	Grey	20x2 m
551 032WS	KKC 4010	40x100	Grey	14x2 m
551 017WS	KKC 6060	60x60	Grey	12x2 m
551 018WS	KKC 6080	60x80	Grey	12x2 m
551 033WS	KKC 6010	60x100	Grey	18x2 m
551 019WS	KKC 8060	80x60	Grey	14x2 m
551 020WS	KKC 8080	80x80	Grey	12x2 m
551 035WS	KKC 8010	80x100	Grey	12x2 m
551 021WS	KKC 1006	100x60	Grey	10x2 m
551 022WS	KKC 1008	100x80	Grey	8x2 m
551 036WS	KKC 1001	100x100	Grey	12x2 m
551 023WS	KKC 1206	120x60	Grey	8x2 m
551 024WS	KKC 1208	120x80	Grey	6x2 m
551 025WS	KKC 1201	120x100	Grey	10x2 m
551 040WS	KKC 1501	150x100	Grey	8x2 m

## Wiring Duct Covers



Order No.	Type	Width (mm)	Color	Description	Qty.
551 049	KKK 15	15	Grey	KKK 15 mm Wiring Duct Cover	10x2 m
551 050	KKK 25	25	Grey	KKK 25 mm Wiring Duct Cover	10x2 m
551 051	KKK 40	40	Grey	KKK 40 mm Wiring Duct Cover	10x2 m
551 052	KKK 60	60	Grey	KKK 60 mm Wiring Duct Cover	10x2 m
551 053	KKK 80	80	Grey	KKK 80 mm Wiring Duct Cover	10x2 m
551 054	KKK 100	100	Grey	KKK 100 mm Wiring Duct Cover	10x2 m
551 055	KKK 120	120	Grey	KKK 120 mm Wiring Duct Cover	10x2 m
551 056	KKK 150	150	Grey	KKK 150 mm Wiring Duct Cover	10x2 m

## Wiring Duct Accessories



KKT 4040



KKT 4060



KKB



KKM

Order No.	Type	Color	Description	Qty.
553 315	KKT 4040	Black	Wire Retainer	10
553 325	KKT 4060	Black	Wire Retainer	10
553 335	KKT 6080	Black	Wire Retainer	10
553 345	KKT 4080	Black	Wire Retainer	10
553 355	KKT 6040	Black	Wire Retainer	10
553 365	KKT 6060	Black	Wire Retainer	10
553 375	KKT 6010	Black	Wire Retainer	10
553 385	KKT 8060	Black	Wire Retainer	10
553 395	KKT 1006	Black	Wire Retainer	10
553 425	KKT 1206	Black	Wire Retainer	10
553 435	KKT 8080	Black	Wire Retainer	10
553 445	KKT 8010	Black	Wire Retainer	10
553 455	KKT 1008	Black	Wire Retainer	10
553 465	KKT 1001	Black	Wire Retainer	10
553 475	KKT 1208	Black	Wire Retainer	10
553 485	KKT 1201	Black	Wire Retainer	10
553 500	SETR	-	Setting Tool for Rivets	1
553 600	PPE 6.5	Grey	Rivets	100
553 405	KKB	Black	Cable Clamp	10
553 415	KKM	Black	Cable Holder	10

## Wiring Duct Accessories



KKMR



KMK 1002

Order No.	Type	Description	Qty.
553 220	KMK 1002	Wiring Duct Cutting Tool up to 120 mm	1
553 230	KKMR	Wiring Duct Cutting Hand Tool	1



Measuring Metering Alarming  
 Communicating Harmonic monitoring  
 Counting Waveform displaying  
 Taking impulse Data logging  
 Converting Phasor analyzing  
 Specifying hour meters

Measuring Metering Alarming  
 Phasor analyzing Communicating Learning  
 Harmonic monitoring  
 Compensation Data logging  
 Dynamic capacitor monitoring  
 Displaying Switching Cycles  
 Activating target-2 cosφ



A power factor controller is an automation device which allows power distribution system to operate at its maximum efficiency with reducing reactive power. This control process reduces the load requirement on the energy generation and transmission supply system.

- Modular design
- No socket cable required
- Dynamic capacitor monitoring
- The latest technology
- Learning connections and step powers
- Modbus communication

Order No.	Product Name	Step Number	Single-Phase Current Input	Three Phase Current Input	Single Phase capacitor	Three Phase capacitor	Shunt Reactor	RS-485 Communication	DCM (Dynamic capacitor monitoring)	Generator Input	Dimensions	Harmonic Measurement	Display
606 005	RAPIDUS 231R	12		✓	✓	✓	✓	✓	✓	✓	144x144	51	Graphic LCD
606 011	RAPIDUS 211R	12	✓				✓	✓	✓	✓	144x144	51	Graphic LCD
606 002	RAPIDUS 232R	24		✓	✓	✓	✓	✓	✓	✓	144x144	51	Graphic LCD
new 606 060	RAPIDUS 114	4	✓							✓	96x96	-	Custom LCD
new 606 061	RAPIDUS 114R	4	✓							✓	96x96	-	Custom LCD
new 606 062	RAPIDUS 116	6	✓							✓	96x96	-	Custom LCD
new 606 063	RAPIDUS 116R	6	✓							✓	96x96	-	Custom LCD
new 606 064	RAPIDUS 118	8	✓							✓	96x96	-	Custom LCD
new 606 065	RAPIDUS 118R	8	✓							✓	96x96	-	Custom LCD
new 606 070	RAPIDUS 110	10	✓							✓	144x144	-	Custom LCD
new 606 071	RAPIDUS 110R	10	✓							✓	144x144	-	Custom LCD
new 606 072	RAPIDUS 111	12	✓							✓	144x144	-	Custom LCD
new 606 073	RAPIDUS 111R	12	✓							✓	144x144	-	Custom LCD

**KLEA**



The energy analyzer is an automation device that provides 3-phase energy monitoring, comprehensive network control and analysis. It has many advanced application features such as energy measurement, data storage, DIO applications, analog output applications. KLEA,

- 10mA measurement accuracy
- Class 0,2S sensing accuracy
- Built-in battery and real time clock
- All user operations are easily done with 160 x 240 graphic display and 6 keys.

Order No.	Product Name	3V, 3I, Inötr, Cos, F, P, Q, S, kWh, kVArh, Demand, Max., Min.	4 Quadrant Reactive meter	Energy meter for each phase	3- Time Tariff Energy Meter	2- Tariff Energy Meter	DO	DI	AO	Alarm Relay	RS-485 Comm.	Internal Battery	Memory	External Supply (85-300VAC/DC)	THDI and THDV Measurement	Harmonic Measurement	Dimensions	Display
606 100	KLEA 320P	✓	✓	✓	✓	✓	2	2	2	✓	✓	✓	✓	✓	✓	1-51.	96x96	Graphic LCD
606 101	KLEA 370P	✓	✓	✓	✓	✓	7	7	2	✓	✓	✓	✓	✓	✓	1-51	96x96	Graphic LCD
606 102	KLEA 322P	✓	✓	✓	✓	✓	2	2	2	2	✓	✓	✓	✓	✓	1-51	96x96	Graphic LCD
606 103	KLEA 324P	✓	✓	✓	✓	✓	2	2	4	2	✓	✓	✓	✓	✓	1-51	96x96	Graphic LCD
606 130	KLEA 320P-D	✓	✓	✓	✓	✓	2	2	2	2	✓	✓	✓	✓	✓	1-51	96x96	Graphic LCD
606 131	KLEA 370-D	✓	✓	✓	✓	✓	7	7	2	✓	✓	✓	✓	✓	✓	1-51	96x96	Graphic LCD
606 160	KLEA 220P	✓	✓	✓	✓	✓	2	2	2	✓	✓	✓	✓	✓	✓	1-31	96x96	Custom LCD
606 180	KLEA 110P	✓	✓	✓	✓	✓	1	2	2	✓	✓	✓	✓	✓	✓	1-31. *(With RS-485)	96x96	7 Segment LED
new 606 121	KLEA 370P-VSM	✓	✓	✓	✓	✓	7	7	2	✓	✓	✓	✓	✓	✓	1-51	96x96	Graphic LCD
new 606 150	KLEA 320P-DC	✓	✓	✓	✓	✓	2	2	2	✓	✓	✓	✓	✓	✓	1-51	96x96	Graphic LCD
new 606 190	KLEA 220P-DC	✓	✓	✓	✓	✓	2	2	2	✓	✓	✓	✓	✓	✓	1-31	96x96	Custom LCD

**ENERGY MANAGEMENT**

With KLEMSAN energy management products,

**Determination of Energy Consumption Centers:** Energy consumed by lighting, heating, production departments or machines in the production process can be measured and recorded. By preparing comparative reports with these data, the centers with the highest consumption can be determined and firstly the studies made in these centers can be made and the investment made in a short time can be recycled as savings. Calculation of Energy Costs per

**Product:** Energy costs per product can be reported by measuring the number of products produced and the total energy consumed to produce these products. This reporting can be done for certain hours of the day or for certain days of the month, and the most efficient production time can be determined.

**Reactive Energy Control:** The RAPIDUS reactive control relay provides precise compensation and remains under the reactive penalty limit. By monitoring your system remotely, you get instant information. With the alarms you will set, you will be able to see consumed reactive energy warnings, you will be able to intervene in your bill, you will save money!





**ECRAS** is an advanced multimeter that can measure **3 phases** in electric networks and can control by 2 relay outputs. ECRAS offers a very precise measurement of the basic electrical parameters in your electrical network and of the extended energy analysis solutions. All measured data can be transferred to the remote monitoring system via modbus communication. Low / high limit threshold values for all electrical parameters can be defined. The load management and protection features within this network can be used with alarm relay outputs.

Order No.	Product Name	Connection	(V <sub>VLL</sub> , I <sub>N</sub> , F, Cos φ, PF, P, Q, S)	THDI and THDV measurement	Max.-Min. Values	(Demand) (I, P, Q, S)	Tariffs	Assigning Alarms	Alarm Relay	RS-485	Single Phase Measurement	Three Phase Measurement	Dimensions	Display
606 210	ECRAS 100	3 Phase	✓	✓	✓	✓	1 Tariff				✓	✓	Panel Mount(96x96mm)	7 Segment LED
606 211	ECRAS 120	3 Phase	✓	✓	✓	✓	1 Tariff	✓	✓		✓	✓	Panel Mount(96x96mm)	7 Segment LED
606 212	ECRAS 200	3 Phase	✓	✓	✓	✓	1 Tariff			✓	✓	✓	Panel Mount(96x96mm)	7 Segment LED
606 213	ECRAS 220	3 Phase	✓	✓	✓	✓	1 Tariff	✓	✓	✓	✓	✓	Panel Mount(96x96mm)	7 Segment LED
606 218	ECRAS 100 VCF	3 Phase	V <sub>VLL</sub> , I <sub>N</sub> , F				1 Tariff				✓	✓	Panel Mount(96x96mm)	7 Segment LED

### ACCESSORIES



Order No.	Product Name	Description	Pack. Pcs.
250 001	SILICONE COVER	IP66 Silicone Cover (96x96mm)	2

### POWYS



**POWYS**, can measure **3 phases** and 1 phase in electric networks. It is an advanced network analyzer that can provide control thanks to 2 relay, digital inputs and outputs.

**POWYS** energy analyzer allows your electric network to measure basic electrical parameters and provide highly precise measurement of extended energy analysis solutions. All measured data can be transferred to the remote monitoring system via modbus communication. Low / high limit threshold values for all electrical parameters can be defined. This allows the load management and protection features within a network to be used with alarm relay outputs.

Order No.	Product Name	Single Phase Measurement	Three Phase Measurement	V, I, Inđr, Cos φ, P, Q, S, kWh, kVA <sub>rh</sub> , Demand, Maks., Min.	2. Tariff Energy Meter	Single Phase Energy Meter for each phase	DI	DO	AO	Alarm Relay	RS-485 Communication	Internal Battery	Memory	External Supply (85-300VAC/DC)	Harmonic Measurement	Mount Type	Display
606 300	POWYS 3100	✓	✓	✓		✓					✓			✓	1-31. (With RS-485)	Rail Mount	
606 303	POWYS 3101	✓	✓	✓	✓	✓	2	2		2	✓			✓	1-31. (With RS-485)	Rail Mount	
606 304	POWYS 3111	✓	✓	✓	✓	✓	2	2		2	✓			✓	1-31.	Rail Mount	7 Segment LED
606 305	POWYS 3121	✓	✓	✓	✓	✓	2	2		2	✓			✓	1-31.	Rail Mount	Custom LCD
606 351	POWYS 1110	✓	✓	✓	✓	✓					✓			✓	1-31.	Rail Mount	7 Segment LED
606 352	POWYS 1120	✓	✓	✓	✓	✓					✓			✓	1-31.	Rail Mount	Custom LCD
606 354	POWYS 1012	✓	✓	✓	✓	✓		2			✓			✓	1-31.	Rail Mount	7 Segment LED
606 355	POWYS 1022	✓	✓	✓	✓	✓		2			✓			✓	1-31.	Rail Mount	Custom LCD

## WTOR / WI-FI to RS485



### WiFi to RS485

**WTOR** series products; serial MODBUS devices to efficiently connect to IP-based systems over a Wi-Fi network. It provides a flexible and powerful structure for industrial MODBUS communication with many serial and gateway settings. WTOR works as a server in Access point and Station modes.  
**AP (Access Point) Mode:** Where there is no established Wi-Fi network, the WTOR may create a Wi-Fi network. A single device can join the Wi-Fi network created by WTOR  
**STA (Station) Mode:** Joins an external Wi-Fi router to connect serial devices to the existing Wi-Fi network.

Order No.	Product Name	Description
601 450	WTOR-4	RS-485-WI-FI Gateway
601 451	WTOR-4	RS-485-WI-FI Gateway (+Power Supply)

## UTOR



### UTOR series products,

- USB to RS485
- USB to RS232
- Provides TTL conversion from USB.
- UTOR is powered from the USB port without the need for an external power supply. Unlike most converters, UTOR has an isolation barrier that provides electrical isolation between your computer and serial devices. This creates an ideal environment where equipment and data are critical.

Order No.	Type	Description	Isolation	Pack. Pcs.
601 430	UTOR-4i	Isolated USB - RS485 Converter	1500Vrms	1
601 431	UTOR-2i	Isolated USB - RS232 Converter	1500Vrms	1
601 432	UTOR-T5i	Isolated USB - TTL (5V) Converter	1500Vrms	1
601 433	UTOR-T3i	Isolated USB - TTL (3.3V) Converter	1500Vrms	1

## GTOR / GPRS to RS485



**GTOR** series products connect to serial MODBUS devices with TCP / IP based systems via GPRS service. In this way, it is possible to remotely control and monitor serial devices connected to MODBUS network via GPRS service. GTOR can be easily integrated into existing MODBUS networks thanks to their wide range of configuration options.

Order No.	Product Name	Description
601 440	GTOR-4	RS-485-GPRS Gateway
601 441	GTOR-4	RS-485-GPRS Gateway (+Power Supply)

## ETOR / Ethernet to RS485-RS232



**ETOR** is an automation device that enables the monitoring and control of serial connected devices over the internet or Ethernet connected devices via serial port by converting between serial and ethernet protocols.

Order No.	Product Name	Description
601 400	ETOR-4	RS485-Ethernet Gateway
601 401	ETOR-2	RS232-Ethernet Gateway
601 402	ETOR-4	RS485-Ethernet Gateway + External Power Supply
601 403	ETOR-2	RS232-Ethernet Gateway + External Power Supply

## EASIO / Remote I/O



**EASIO** series devices can be remotely read as well as their relay state can be remotely changed through MODBUS protocol. In addition, the number of relay activations can be recorded through device's digital input in the device's memory. This feature allows the use of EASIO as a counter.

Order No.	Product Name	Description
260 001	EASIO 1001	1 Digital Input+ RS485
260 002	EASIO 1100	1 Relay Output + RS485
260 003	EASIO 1101	1 Digital Input + 1 Relay Output + RS485



## PROTECTION RELAYS & TIMERS

**Protection relays;** protect the motor against the various negative situations encountered by the motors in industrial plants (absence of phase, high - undervoltage protection, phase sequence, low-high frequency, asymmetry). The fixed protection or it can be configured in the desired working range with the control knob on the product.

**Control group relays;** It is designed with the aim of directing the outputs according to the state of the variables (time and light level) set by the user and desired to be controlled. KLEMSAN protection control products provide solutions for your needs.

### MEASTRO



**Meastro** is an astonomic time relay which calculates sunrise and sunset times for the given coordinates or city selections and turns the relay contacts on and off to control connected systems without any need of photocells or external sensors. Meastro can be used as digital time relay as well.

- 100 programming memories
- 2x (AgSnO2) contact
- Automatically calculates sunrise, sunset and prayer times according to the location..
- Quick and easy programming with MEASTRO-R via infrared communication
- Free programming software

Order No.	Product Name	Dijital program	Astronomical Program	Prayer Program	Number of Relay	IR	Number of Program	Supply Voltage	Dimensions
270 700	MEASTRO 110	✓			1		100	180 .. 265VAC	36mm
270 701	MEASTRO 120	✓			2		100	180 .. 265VAC	36mm
270 702	MEASTRO 121	✓			2	✓	100	180 .. 265VAC	36mm
270 703	MEASTRO 221	✓	✓		2	✓	100	180 .. 265VAC	36mm
270 704	MEASTRO 321	✓	✓	✓	2	✓	100	180 .. 265VAC	36mm

### MEASTRO-R



Order No.	Product Name	Description	Pack. Pcs.
270 720	MEASTRO - R	MEASTRO Infrared Controller	1

### DPR



**DPR 31xx series** is a digital protection and monitoring relay designed for threephase systems, measures voltage, frequency and monitor these parameters below:

- Over voltage
- Under voltage
- Over frequency
- Phase loss
- PTC error
- Under frequency
- Asymmetry
- Sequence

Order No.	Product Name	Basic Measurements	LCD	Defining Arms	Neutral Connection	PTC Alarm	Number of Relay	External Supply	Supply Voltage	Dimensions
270 600	DPR 3110	✓	✓	✓	✓	✓	1		85 .. 300VAC	36mm
270 601	DPR 3120	✓	✓	✓	✓	✓	2		85 .. 300VAC	36mm
270 602	DPR 3111	✓	✓	✓		✓	1		150...500VAC	36mm
270 603	DPR 3121	✓	✓	✓		✓	2		150...500VAC	36mm
270 604	DPR 3110E	✓	✓	✓	✓	✓	1	✓	85 .. 300VAC	36mm
270 605	DPR 3120E	✓	✓	✓	✓	✓	2	✓	85 .. 300VAC	36mm



Order No.	Product Name	Single-Phase	Neutral Connection	Phase Lost	Phase Sequence	Delay Time	Fixed Asymmetry	Configurable Asymmetry	PTC Protection	Configurable Voltage Protection	Over over high/low Voltage Protection	Relay Output Type	Operating Voltage Range	Dimensions
270 150	P1-A	✓	✓	✓		Fixed	± %20				✓	FORM C	85-320VAC	17,5mm
270 151	P1-P	✓	✓	✓		Fixed			✓		✓	FORM C	18-300VAC/DC	17,5mm
270 152	P1-S	✓	✓	✓	✓	Fixed					✓	FORM C	85-320VAC	17,5mm
270 153	P1-SP	✓	✓	✓	✓	Fixed			✓		✓	FORM C	85-320VAC	17,5mm
270 154	P1-SA	✓	✓	✓	✓	Fixed	± %20				✓	FORM C	85-320VAC	17,5mm
270 155	P1-SAP	✓	✓	✓	✓	Fixed	± %20		✓		✓	FORM C	85-320VAC	17,5mm
270 254	P1D-SA	✓	✓	✓	✓	Fixed	± %20				✓	FORM C	150-500VAC	17,5mm
270 255	P1D-SAP	✓	✓	✓	✓	Fixed	± %20		✓		✓	FORM C	150-500VAC	17,5mm
270 256	C1D-SA	✓	✓	✓	✓	0,1 .. 10sec	± %5 .. %20				✓	FORM C	150-500VAC	17,5mm
270 257	C1D-SAP	✓	✓	✓	✓	0,1 .. 10sec	± %5 .. %20		✓		✓	FORM C	150-500VAC	17,5mm
270 258	C1D-SVP	✓	✓	✓	✓	0,1 .. 10sec			✓		✓	FORM C	150-500VAC	17,5mm
270 400	P1-SU-220V-AC	✓	✓	✓	✓	Fixed	- %40			270V ... 370V AC 4000V ... 500 V AC	✓	FORM A	175-320VAC	17,5mm
270 401	P1-SU-220V-AC	✓	✓	✓	✓	Fixed	- %40				✓	FORM C	175-320VAC	17,5mm
270 402	P1-SU-110V-AC	✓	✓	✓	✓	Fixed	- %40				✓	FORM A	90-150VAC	17,5mm
270 403	P1-SU-110V-AC	✓	✓	✓	✓	Fixed	- %40				✓	FORM C	90-150VAC	17,5mm
270 156	C1-SA	✓	✓	✓	✓	0,1 .. 10sec	± %5 .. %20				✓	FORM C	85-320VAC	17,5mm
270 157	C1-SAP	✓	✓	✓	✓	0,1 .. 10sec	± %5 .. %20		✓		✓	FORM C	85-320VAC	17,5mm
270 158	C1-SVP	✓	✓	✓	✓	0,1 .. 10sec			✓		✓	FORM C	85-320VAC	17,5mm
270 159	V1	✓	✓	✓	✓	0,1 .. 10sec				150V ... 210V AC 240V ... 300 V AC	✓	FORM C	85-320VAC	17,5mm
270 160	V1-S	✓	✓	✓	✓	0,1 .. 10sec					✓	FORM C	85-320VAC	17,5mm
270 170	V1-M	✓	✓	✓	✓	0,1 .. 10sec					✓	FORM C	85-320VAC	17,5mm
270 162	V1-T*	✓	✓	✓	✓	0,1 .. 10sec					✓	FORM C	85-320VAC	17,5mm
270 259	V1D	✓	✓	✓	✓	0,1 .. 10sec				270V ... 370V AC 4000V ... 500 V AC	✓	FORM C	150-500VAC	17,5mm
270 260	V1D-S	✓	✓	✓	✓	0,1 .. 10sec					✓	FORM C	150-500VAC	17,5mm
270 130	G1-SA	✓	✓	✓	✓	0,1 .. 10sec	± %5 .. %20 / OFF			± UN x (%5 .. %20) / OFF		FORM C	230VAC, ±%25	17,5mm
270 131	G1-SAP	✓	✓	✓	✓	0,1 .. 10sec	± %5 .. %20 / OFF		✓	± UN x (%5 .. %20) / OFF		FORM C	230VAC, ±%25	17,5mm
270 136	G1-A	✓	✓	✓	✓	0,1 .. 10sec	± %5 .. %20 / OFF			± UN x (%5 .. %20) / OFF		FORM C	230VAC, ±%25	17,5mm
270 140	G1D-SA	✓	✓	✓	✓	0,1 .. 10sec	± %5 .. %20 / OFF			± UN x (%5 .. %20) / OFF		FORM C	380 .. 480VAC, ±%25	17,5mm
270 141	G1D-SA-L	✓	✓	✓	✓	0,1 .. 10sec	± %5 .. %20 / OFF			± UN x (%5 .. %20) / OFF		FORM C	190 .. 230VAC, ±%25	17,5mm
270 137	G1-SAT	✓	✓	✓	✓	1 .. 15min	± %5 .. %20			± UN x (%5 .. %20) / OFF	✓	FORM C	230VAC, ±%25	17,5mm
270 138	G1-TU	✓	✓	✓	✓	1 .. 15min				± UN x 0,75	✓	FORM C	230VAC, ±%25	17,5mm
270 139	G1-SV	✓	✓	✓	✓	0,1 .. 10sec				150V ... 210V AC 240V ... 300 V AC	✓	FORM C	230VAC, ±%25	17,5mm
270 145	G1D-SV	✓	✓	✓	✓	0,1 .. 10sec				270V ... 370V AC 400V ... 500 V AC	✓	FORM C	380 .. 480VAC, ±%25	17,5mm
270 180	G1-SVP	✓	✓	✓	✓	0,1 .. 10sec				150V ... 210V AC 240V ... 300 V AC	✓	FORM C	230VAC, ±%25	17,5mm
270 134	M1-A	✓	✓	✓	✓	Fixed	± %20					FORM C	230VAC, ±%25	17,5mm
270 132	M1-SA	✓	✓	✓	✓	Fixed	± %20					FORM C	230VAC, ±%25	17,5mm
270 135	M1-SP	✓	✓	✓	✓	Fixed			✓			FORM C	230VAC, ±%25	17,5mm
270 133	M1-SAP	✓	✓	✓	✓	Fixed	± %20		✓			FORM C	230VAC, ±%25	17,5mm
270 142	M1D-S	✓	✓	✓	✓	Fixed						FORM C	380 .. 480VAC, ±%25	17,5mm
270 144	M1D-SA	✓	✓	✓	✓	Fixed	± %20					FORM C	380 .. 480VAC, ±%25	17,5mm

\* There are two time delay knobs separately, one of them for error and the other one for normal operation.

## CURRENT & FREQUENCY PROTECTION

Order No.	Product Name	Description	Operating Voltage Range	Dimensions
270 270	CPR-16	1..16A AC Adjustable Overcurrent Protection Relay (can be used with over 16A current transformer)	36..300VAC / 24..300VDC	17,5mm
270 161	F1	Adjustable Frequency Protection Relay, Adjustable Between 40-65Hz	85..320VAC	17,5mm



Order No.	Product Name	ON delay (mod: a, ND)	OFF delay (mod: b, FD)	ON/OFF Delay (mod: NFD)	ON Flasher (mod: Fon)	OFF Flasher (mod: g, Foff)	Functions with Control Input (mod: c, d, e, f, h, i, k)	Precise Time Setting	Supply Voltage	Dimensions
270 363	T1-30S	✓							24VAC/DC or 180 .. 265VAC	17,5mm
270 350	T1-60S	✓							24 .. 300VAC/DC	17,5mm
270 359	T1-100S	✓							24VAC/DC or 180 .. 265VAC	17,5mm
270 351	T1-FLASH				✓			✓	24 .. 300VAC/DC	17,5mm
270 352	T1-60S2	✓ (2 contacts)							24 .. 300VAC/DC	17,5mm
270 353	T1-M5	✓	✓	✓	✓	✓		✓	24 .. 300VAC/DC	17,5mm
270 354	T1-K	✓	✓	✓	✓	✓	✓	✓	24 .. 300VAC/DC	17,5mm
270 355	T1-M4	✓	✓	✓	✓	✓		✓	24 .. 300VAC/DC	17,5mm
270 357	T1-XS	✓	✓	✓	✓	✓		✓	24 .. 300VAC/DC	17,5mm
270 370	Z1-60S	✓							12VAC/DC or 180 .. 265VAC	17,5mm
270 371	Z1-FLASH				✓			✓	12VAC/DC or 180 .. 265VAC	17,5mm
270 373	Z1-M5	✓	✓	✓	✓	✓		✓	12VAC/DC or 180 .. 265VAC	17,5mm
270 374	Z1-K	✓	✓	✓	✓	✓	✓	✓	12VAC/DC or 180 .. 265VAC	17,5mm
270 375	Z1-M4	✓	✓	✓	✓	✓		✓	12VAC/DC or 180 .. 265VAC	17,5mm
270 377	Z1-XS	✓	✓	✓	✓	✓		✓	12VAC/DC or 180 .. 265VAC	17,5mm

Order No.	Product Name	Function	Supply Voltage	Dimensions
270 356	T1-LR	Left - Right Relay	24 .. 300VAC/DC	17,5mm
270 376	Z1-LR	Left - Right Relay	12VAC/DC or 180 .. 265VAC	17,5mm
270 358	SD1	Star - Delta Relay(FormC)	150 .. 450VAC	17,5mm
270 362	SD1-24	Star - Delta Relay(FormC)	24 .. 300VAC/DC	17,5mm
270 378	ZD-1	Star - Delta Relay(FormC)	12VAC/DC or 180 .. 265VAC	35mm
270 364	SD1C	Star - Delta Relay(FormA)	150 .. 450VAC	17,5mm
270 365	SD1C-24	Star - Delta Relay(FormA)	24 .. 300VAC/DC	17,5mm
270 050	PH1-20L	Photocell relay 1...20Lux adjustable(FG-05 included)	24 .. 300VAC/DC	17,5mm
270 001	LC3	Liquid Level Controller (100m)	150 .. 500VAC	35mm
270 002	LC3-T	Liquid Level Controller (800m)	185 .. 265VAC	35mm

## ACCESSORIES

Order No.	Product Name	Description
280 010	FG-05	Photocell sensor
280 610	SE-1	Liquid level electrode



## TRANSDUCERS

**Transducer** is an electronic device that changes one form of energy into another. It converts temperature, voltage and current parameters into V, mV, mA and RS485 outputs. Klemsan transducers input, output and supply parts are electrically isolated from one another in order to provide protective isolation. Transducers measure input parameters and convert them to another signal form continuously. It is possible to configure different input ranges and output types by means of adjustment knobs. Measured values can be transmitted to a PC or PLC through serial communication.



Order No.	Product Name	Isolation	Description	Input	Type	Output	Supply Voltage	Dimensions
602 300	ASCON 311	3 way	DC Voltage and Current (mV,V,mA)	30 signal combinations; 4-20mA, 0-10V, ...	DC Voltage and Current (mV,V,mA)	10 signal combinations; 4-20mA, 0-10V, ...	11 .. 30VDC	17,5 mm
602 310	ASCON 321	3 way	PT100 (2,3,4 wires)	-150°C .. 800°C configurable.	DC Voltage and Current (mV,V,mA)	10 signal combinations; 4-20mA, 0-10V, ...	11 .. 30VDC	17,5 mm
602 320	ASCON 331	3 way	Thermocouple ( J, K, E, R and S)	J : -200°C .. 1200 °C configurable. K : -200°C.. 1350 °C configurable. E : -200°C .. 950 °C configurable. R : -50°C .. 1750 °C configurable. S : -50°C .. 1750 °C configurable.	DC Voltage and Current (mV,V,mA)	10 signal combinations; 4-20mA, 0-10V, ...	11 .. 30VDC	17,5 mm
602 330	ASCON 341	3 way	2-3 wire PNP/NPN, Namur, Push-Pull, Dry contact	0 .. 100 kHz configurable via knobs 0...150 kHz can be learned from input signal	DC Voltage and Current (mV,V,mA)	6 signal combinations; 4-20mA, 0-10V, ...	11 .. 30VDC	17,5 mm
602 400	ASCON 352	3 way	mV, V, mA, PT100 (2, 3 and 4 wires)Thermocouple (J,K,E,R ve S)	30 signal combinations PT100(-150°C...800 °C Configurable) J, K, E, R and S thermocouple types.	RS-485	Modbus RTU	11 .. 30VDC	17,5 mm

## PISO

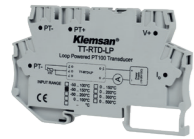


**PISO** is a passive isolator that isolates, transforms, and multiplexes analog signal values from temperature, pressure, level, weight and speed sensors. It does not need any power source while providing all this.

Order No.	Product Name	Isolation	Number of Inputs	Type	Number of Outputs	Type	Supply Voltage	Dimensions
602 800	PISO-DC-1	2 Way	1	0-20mA	1	0-20mA	-	17,5mm
602 801	PISO-DC-1	2 Way	1	4-20mA	1	4-20mA	-	17,5mm
602 802	PISO-DC-1	2 Way	1	0-20mA	1	0-10V	-	17,5mm
602 803	PISO-DC-1	2 Way	1	0-20mA	1	0-5V	-	17,5mm
602 850	PISO-DC-2	2 Way	2	0-20mA	2	0-20mA	-	17,5mm
602 851	PISO-DC-2	2 Way	2	4-20mA	2	4-20mA	-	17,5mm
602 852	PISO-DC-2	2 Way	2	0-20mA	2	0-10V	-	17,5mm
602 853	PISO-DC-2	2 Way	2	0-20mA	2	0-5V	-	17,5mm
602 700	PISO-DC-DUO	2 Way	1	0-20mA	2	0-20mA	-	17,5mm
602 701	PISO-DC-DUO	2 Way	1	4-20mA	2	4-20mA	-	17,5mm
602 702	PISO-DC-DUO	2 Way	1	0-20mA	2	0-10V	-	17,5mm
602 703	PISO-DC-DUO	2 Way	1	0-20mA	2	0-5V	-	17,5mm

## PT 100 TRANSDUCERS

Order No.	Product Name	Description	Pack. Pcs.
604 100	TT-RTD-LP-C (-50°C .. 100°C)	Loop Powered PT100 Transducer (2,3 wires PT100, -50°C...+ 100°C - Output 4..20mA)	1
604 101	TT-RTD-LP-C (0°C .. 100°C)	Loop Powered PT100 Transducer (2,3 wires PT100, 0°C...+ 100°C - Output 4..20mA)	1
604 102	TT-RTD-LP-C (0°C .. 150°C)	Loop Powered PT100 Transducer (2,3 wires PT100, 0°C...+ 150°C - Output 4..20mA)	1
604 103	TT-RTD-LP-C (0°C .. 200°C)	Loop Powered PT100 Transducer (2,3 wires PT100, 0°C...+ 200°C - Output 4..20mA)	1
604 104	TT-RTD-LP-C (0°C .. 300°C)	Loop Powered PT100 Transducer (2,3 wires PT100, 0°C...+ 300°C - Output 4..20mA)	1
604 105	TT-RTD-LP-C (-50°C .. 150°C)	Loop Powered PT100 Transducer (2,3 wires PT100, -50°C...+ 150°C - Output 4..20mA)	1
604 106	TT-RTD-LP-C (-50°C .. 200°C)	Loop Powered PT100 Transducer (2,3 wires PT100, -50°C...+ 200°C - Output 4..20mA)	1
604 107	TT-RTD-LP-C (0°C .. 500°C)	Loop Powered PT100 Transducer (2,3 wires PT100, -50°C...+ 500°C - Output 4..20mA)	1
Order No.	Product Name	Description	Pack. Pcs.
603 860	TT-RTD-LP (-50°C .. 100°C)	Loop Powered PT100 Transducer (2,3 wires PT100, -50°C...+ 100°C - Output 4..20mA)	1
603 861	TT-RTD-LP (0°C .. 100°C)	Loop Powered PT100 Transducer (2,3 wires PT100, 0°C...+ 100°C - Output 4..20mA)	1
603 862	TT-RTD-LP (0°C .. 150°C)	Loop Powered PT100 Transducer (2,3 wires PT100, 0°C...+ 150°C - Output 4..20mA)	1
603 863	TT-RTD-LP (0°C .. 200°C)	Loop Powered PT100 Transducer (2,3 wires PT100, 0°C...+ 200°C - Output 4..20mA)	1
603 864	TT-RTD-LP (0°C .. 300°C)	Loop Powered PT100 Transducer (2,3 wires PT100, 0°C...+ 300°C - Output 4..20mA)	1
603 865	TT-RTD-LP (-50°C .. 150°C)	Loop Powered PT100 Transducer (2,3 wires PT100, -50°C...+ 150°C - Output 4..20mA)	1
603 866	TT-RTD-LP (-50°C .. 200°C)	Loop Powered PT100 Transducer (2,3 wires PT100, -50°C...+ 200°C - Output 4..20mA)	1
603 867	TT-RTD-LP (0°C .. 500°C)	Loop Powered PT100 Transducer (2,3 wires PT100, 0°C...+ 500°C - Output 4..20mA)	1



## CT3 / VT3 SERIES TRANSDUCERS

Order No.	Product Name	Description	Pack. Pcs.
600 100	CT3-AC	AC Supply, Configurable current converters	1
600 102	CT3-AC-24	DC Supply, Configurable current converters	1
600 104	CT3-AC-LP	Loop Powered Configurable current converters	1

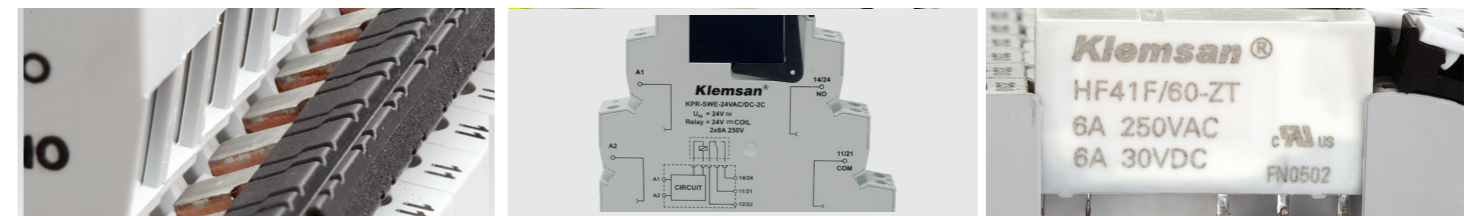
Input signal range (Selectable with knobs)	0 .. 1 A AC	0 .. 20 mA
	0 .. 2 A AC	4 .. 20 mA
	0 .. 3 A AC	±20 mA
	0 .. 4 A AC	20 .. 0 mA
	0 .. 5 A AC	20 .. 4 mA
Input signal frequency	40 .. 70 Hz	0 .. 5 V
		0 .. 10 V
		±5 V
		±10 V
		10 .. 0 V
		0 .. 5 V
		0 .. 10 V
		±5 V
		±10 V
		10 .. 0 V
		0 .. 5 V
		0 .. 10 V
		±5 V
		±10 V
		10 .. 0 V
		0 .. 5 V
		0 .. 10 V
		±5 V
		±10 V
		10 .. 0 V

Order No.	Product Name	Description	Pack. Pcs.
600 101	VT3-AC	AC Supply, Configurable voltage converters	1
600 103	VT3-AC-24	DC Supply, Configurable voltage converters	1
600 105	VT3-AC-LP	Loop Feed, Configurable voltage converters	1
600 106	VT3-ACDC-24	DC Supply, Configurable AC / DC voltage converters	1

Input signal range(Selectable with knobs)	0 .. 24 V AC	0 .. 24 V AC
	0 .. 36 V AC	0 .. 54 V AC
	0 .. 54 V AC	0 .. 120 V AC
	0 .. 80 V AC	0 .. 250 V AC
	0 .. 120 VAC	0 .. 450 V AC
	0 .. 170 VAC	0 .. 24 V DC
	0 .. 250 VAC	0 .. 54 V DC
	0 .. 400 VAC	0 .. 120 V DC
	0 .. 450 VAC	0 .. 250 V DC
	0 .. 500 VAC	0 .. 450 V DC
Input signal frequency	40 .. 70 Hz	VT3-AC-LP 40 .. 20 mA



## PLC RELAY



The PLC Interface relay is an electromagnetic switch operated by a relatively small electric current that can turn on and off a much larger electric current.

The PLC Interface relay is an electrically operated switch that is used where the transmission must be controlled by a low power signal. It can be used to amplify the signal. PLC interface relay can switch both direct current and alternating current. When signaling, they isolate between input and control units. Leakage current is filtered to prevent it from being stuck in the "open" state when the relay is turned off.

## 1C PLC RELAY



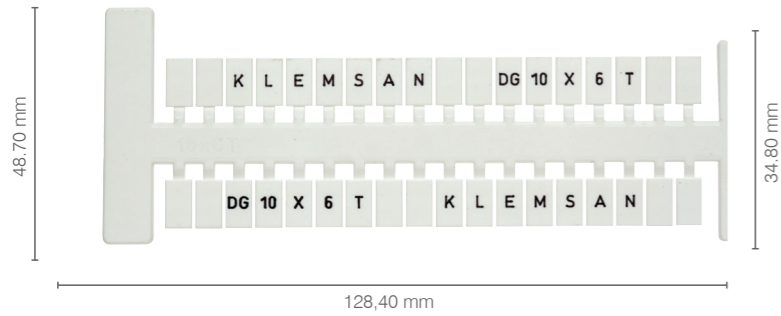
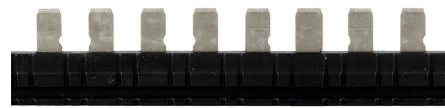
Order No.	Product Name	Description	Packaging Pcs.
270 810	KPR - SCE - 24 VAC/DC	24 VAC/DC 6 A	10
270 840	KPR - SCE - 115 VAC/DC	115 VAC/DC 6 A	10
270 850	KPR - SCE - 230 VAC/DC	230 VAC/DC 6 A	10
270 794	KPR-SCE-6VDC-1C	6VDC-1C	10
270 795	KPR-SCE-6VDC-1C (Relay Socket)	6VDC-1C	10
270 800	KPR-SCE-12VAC/DC-1C	12VAC/DC-1C	10
270 801	KPR-SCE-12VAC/DC-1C (Relay Socket)	12VAC/DC-1C	10
270 804	KPR-SCE-12VDC-1C	12VDC-1C s	10
270 805	KPR-SCE-12VDC-1C (Relay Socket)	12VDC-1C	10
270 811	KPR-SCE-24VAC/DC-1C (Relay Socket)	24VAC/DC-1C	10
270 814	KPR-SCE-24VDC-1C	24VDC-1C	10
270 815	KPR-SCE-24VDC-1C (Relay Socket)	24VDC-1C	10
270 820	KPR-SCE-48VAC/DC-1C	48VAC/DC-1C	10
270 821	KPR-SCE-48VAC/DC-1C (Relay Socket)	48VAC/DC-1C	10
270 824	KPR-SCE-48VDC-1C	48VDC-1C	10
270 825	KPR-SCE-48VDC-1C (Relay Socket)	48VDC-1C	10
270 830	KPR-SCE-60VAC/DC-1C	60VAC/DC-1C	10
270 831	KPR-SCE-60VAC/DC-1C (Relay Socket)	60VAC/DC-1C	10
270 834	KPR-SCE-60VDC-1C	60VDC-1C	10
270 835	KPR-SCE-60VDC-1C (Relay Socket)	60VDC-1C	10
270 841	KPR-SCE-115VAC/DC-1C (Relay Socket)	115VAC/DC-1C	10
270 844	KPR-SCE-115VDC-1C	115VDC-1C	10
270 845	KPR-SCE-115VDC-1C (Relay Socket)	115VDC-1C	10
270 846	KPR-SCF-115VAC/DC-1C	115VAC/DC-1C RCZ Filtered	10
270 847	KPR-SCF-115VAC/DC-1C (Relay Socket)	115VAC/DC-1C RCZ Filtered	10
270 851	KPR-SCE-230VAC/DC-1C (Relay Socket)	230VAC/DC-1C	10
270 852	KPR-SCE-230VAC-1C	230VAC-1C	10
270 853	KPR-SCE-230VAC-1C (Relay Socket)	230VAC-1C	10
270 856	KPR-SCF-230VAC/DC-1C	230VAC/DC-1C RCZ Filtered	10
270 857	KPR-SCF-230VAC/DC-1C (Relay Socket)	230VAC/DC-1C RCZ Filtered	10
270 858	KPR-SCF-230VAC-1C	230VAC/DC-1C RCZ Filtered	10
270 859	KPR-SCF-230VAC-1C (Relay Socket)	230VAC/DC-1C RCZ Filtered	10

## ACCESSORIES

Order No.	Product Name	Description	Pack. Pcs.
476 605	TK - KPR - S	Plug-in bridge for 16 hole	25
476 606	TK - KPR - S	Plug-in bridge for 8 hole	50
463 247	APP - KPR	End Plate	25
505 390	DG 10/6T	Label	360

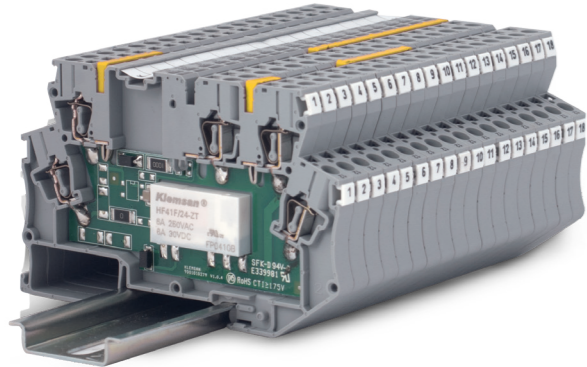
## SPARE RELAY

Order No.	Product Name	Description	Pack. Pcs.
095 040	REL 60V DC SLIM TYPE 6A/250VAC	Spare Relays for 60V, 115V, 230VAC and DC Products	10
095 041	REL 24V DC SLIM TYPE 6A/250VAC	Spare Relays for 24V, 48VAC and DC Products	10
095 042	REL 12V DC SLIM TYPE 6A/250VAC	Spare Relays for 12V AC and DC Products	10
095 043	REL 5V DC SLIM TYPE 6A/250VAC	Spare Relays for 6VAC and DC Products	10



Contact Type	1CO
Contact Capacity (Cosφ = 1)	6A 250VAC / 30VDC
Maximum Switching Voltage	400VAC / 125VDC
Maximum Switching Current	6A
Maximum Switching Power	1500VA / 180W
Mechanical Life	1 x 10 <sup>7</sup> switching
Electrical Life	NO 3 x 10 <sup>4</sup> switching (850C) NC 1 x 10 <sup>4</sup> switching
Operate Time	(850C) 10 msec max.
Release Time	5 msec max.

## INTEGRATED PLC RELAYS

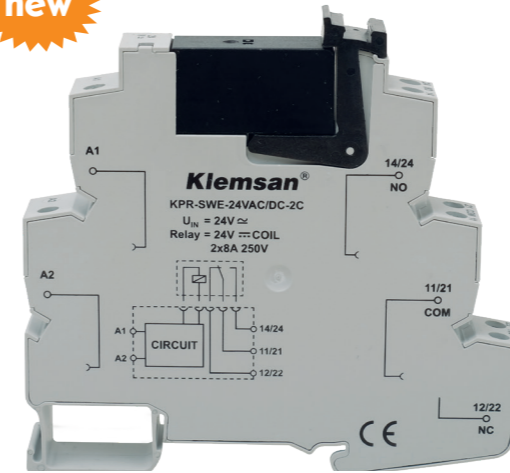


- Design that is not affected by vibration
- Extended input range from 6V to 230V
- DC - AC and AC / DC supply voltage options
- With spring connection
- Integrated RCZ filter option
- Plug-in bridge saves time
- High quality, long service life

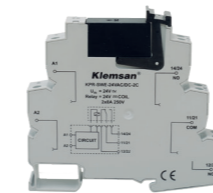
Order No.	Product Name	Description	Integrated RCZ Filter	Max. Switching Value	Connection Type
271 504	KPR-CIE-6VDC-1C	6VDC-1 C/0		6A/250VAC; 1500VA 6A/30VDC; 180W	Spring Clamp
271 510	KPR-CIE-12VAC/DC-1C	12VAC/DC-1 C/0			
271 514	KPR-CIE-12VDC-1C	12VDC-1 C/0			
271 520	KPR-CIE-24VAC/DC-1C	24VAC/DC-1 C/0			
271 524	KPR-CIE-24VDC-1C	24VDC-1 C/0			
271 530	KPR-CIE-48VAC/DC-1C	48VAC/DC-1 C/0			
271 534	KPR-CIE-48VDC-1C	48VDC-1 C/0			
271 540	KPR-CIE-60VAC/DC-1C	60VAC/DC-1 C/0			
271 544	KPR-CIE-60VDC-1C	60VDC-1 C/0			
271 550	KPR-CIE-115VAC/DC-1C	115VAC/DC-1 C/0			
271 554	KPR-CIE-115VDC-1C	115VDC-1 C/0			
271 556	KPR-CIF-115VAC/DC-1C	115VAC/DC-1 C/0	✓		
271 560	KPR-CIE-230VAC/DC-1C	230VAC/DC-1 C/0			
271 562	KPR-CIE-230VDC-1C	230VDC-1 C/0			
271 566	KPR-CIF-230VAC/DC-1C	230VAC/DC-1 C/0	✓		
271 568	KPR-CIF-230VDC-1C	230VDC-1 C/0	✓		

	End Plate	Plug-in Bridge 2 Holes	Plug-in Bridge 3 Holes	Plug-in Bridge 4 Holes	Plug-in Bridge 5 Holes	Plug-in Bridge 10 Holes	DG 6/5 Label	DB 5 Label	11.2 Strip Label
Order Number	450389	470112	470113	470114	470115	470119	505330	505850	1020100
Packaging Unit	10 pcs.	25 pcs.	20 pcs.	15 pcs.	10 pcs.	5 pcs.	440 pcs.	500 pcs.	1 pcs.

## 2 C PLC RELAY



- 6/12/24/48/60/115 and 230V AC / DC option
- 2 CO contacts
- 2x8A switching current
- Easy installation with upper bridge
- 14mm width
- LED indicator
- Simple relays extraction mechanism
- Long switching life



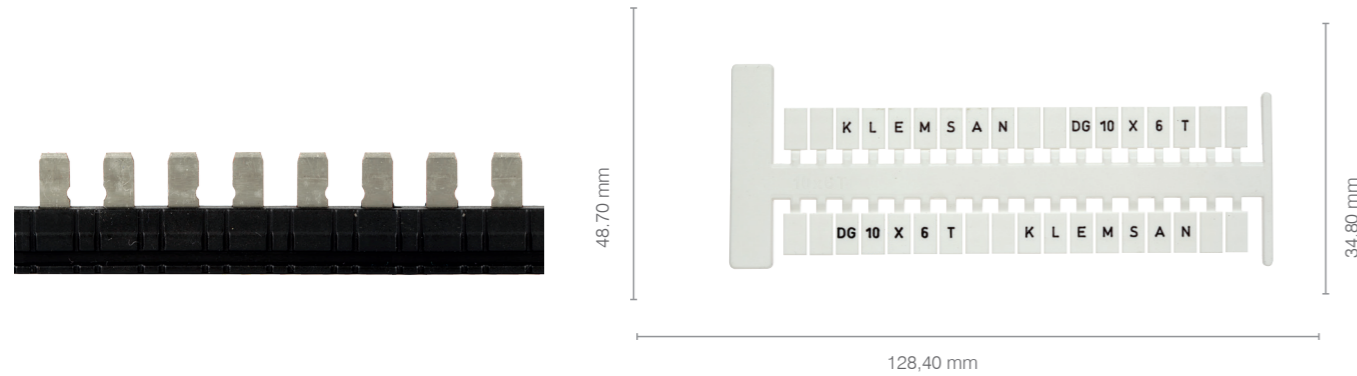
Order No.	Product Name	Description	Pack. Pcs.
272 504	KPR-SWE-6VDC-2C 6VDC	6VDC 8 A - 2 Contacts	10
272 505	KPR-SWE-6VDC-2C 6VDC(Relay Socket)	6VDC-2C	10
272 520	KPR-SWE-12VAC/DC-2C	12VAC/DC 8 A - 2 Contacts	10
272 521	KPR-SWE-12VAC/DC-2C (Relay Socket)	12VAC/DC-2C	10
272 524	KPR-SWE-12VDC-2C	12VDC 8 A - 2 Contacts	10
272 525	KPR-SWE-24VAC/DC-2C (Relay Socket)	12VDC-2C	10
272 540	KPR-SWE-24VAC/DC-2C	24VACDC 8 A - 2 Contacts	10
272 541	KPR-SWE-24VAC/DC-2C (Relay Socket)	24VAC/DC-2C	10
272 544	KPR-SWE-24VDC-2C	24VDC 8 A - 2 Contacts	10
272 545	KPR-SWE-24VDC-2C (Relay Socket)	24VAC/DC-2C	10
272 560	KPR-SWE-48VAC/DC-2C	48VAC/DC 8 A - 2 Contacts	10
272 561	KPR-SWE-48VAC/DC-2C (Relay Socket)	48VAC/DC - 2C	10
272 564	KPR-SWE-48VDC-2C	48VDC 8 A - 2 Contacts	10
272 565	KPR-SWE-48VDC-2C (Relay Socket)	48VDC-2C	10
272 580	KPR-SWE-60VAC/DC-2C	60VAC/DC 8 A - 2 Contacts	10
272 581	KPR-SWE-60VAC/DC-2C (Relay Socket)	60VAC/DC-2C	10
272 584	KPR-SWE-60VDC-2C	60VDC 8 A - 2 Contacts	10
272 585	KPR-SWE-60VDC-2C (Relay Socket)	60VDC-2C	10
272 600	KPR-SWE-115VAC/DC-2C	115VAC/DC 8 A - 2 Contacts	10
272 601	KPR-SWE-115VAC/DC-2C (Relay Socket)	115VAC/DC-2C	10
272 604	KPR-SWE-115VDC-2C	115VDC 8 A - 2 Contacts	10
272 605	KPR-SWE-115VDC/DC-2C (Relay Socket)	115VDC - 2C	10
272 606	KPR-SWF-115VAC/DC-2C	115VDC 8 A - 2C RCZ Filtered	10
272 607	KPR-SWF-115VAC/DC-2C (Relay Socket)	230VAC/DC-2C RCZ Filtered	10
272 620	KPR-SWE-230VAC/DC-2C	230VAC /DC 8 A - 2 Contacts	10
272 621	KPR-SWE-230VAC/DC-2C (Relay Socket)	230VAC/DC-2C	10
272 622	KPR-SWE-230VAC-2C	230VAC 8 A - 2 Contacts	10
272 623	KPR-SWE-230VAC-2C (Relay Socket)	230VAC-2C	10
272 626	KPR-SWF-230VAC/VDC-2C	230VAC/DC 8 A - 2C RCZ Filtered	10
272 627	KPR-SWF-230VAC/VDC-2C (Relay Socket)	230VAC/DC-2C Filtered	10
272 628	KPR-SWF-230VAC-2C	230VAC 8 A - 2C RCZ Filtered	10
272 629	KPR-SWF-230VAC-2C (Relay Socket)	230VAC-2C Filtered	10

## SPARE RELAY

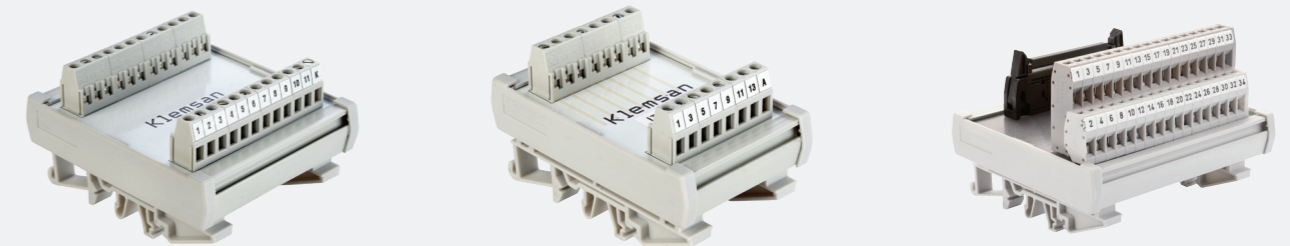
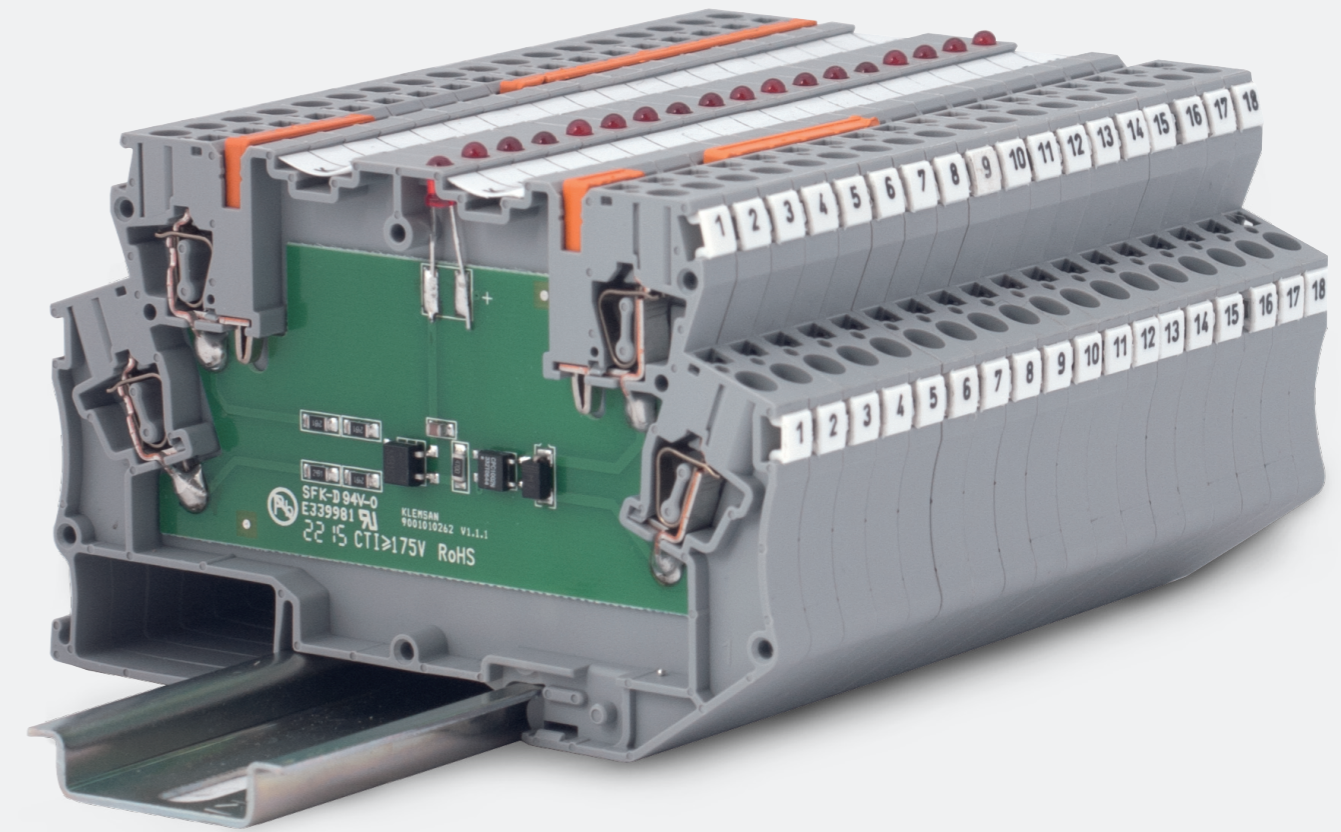
Order No.	Product Name	Description	Pack. Pcs.
095 050	REL 110V DC WIDE TIP 8A/250VAC	Spare Relays for 115V, 230VAC and DC Products	50
095 051	REL 48V DC WIDE TIP 8A/250VAC	Spare Relays for 48V, 60VAC and DC Products	50
095 052	REL 24V DC WIDE TIP 8A/250VAC	Spare Relay for 24V AC / DC, 230V AC Products	50
095 053	REL 12V DC WIDE TIP 8A/250VAC	Spare Relays for 12V AC and DC Products	50
095 054	REL 5V DC WIDE TIP 8A/250VAC	Spare Relays for 6VAC and DC Products	50

**ACCESSORIES**

Order No.	Product Name	Description	Pack. Pcs.
476 900	TK-KPR-SWE	Plug in bridge for 8 hole	50
463 247	APP - KPR	Separating Plate	25
505 390	DG 10/6T	Unprinted	360



Contact Type	2CO
Contact Capacity (CosØ = 1)	8A 250VAC / 30VDC
Maximum Switching Voltage	400VAC / 300VDC
Maximum Switching Current	2x8A
Maximum Switching Power	2000VA / 240W
Mechanical Life	1 x 10 <sup>7</sup>
Electrical Life	NO 3 x 10 <sup>4</sup> (850°) NC 1 x 10 <sup>3</sup> (850°)
Operate Time	18 msec max.
Release Time	8 msec max.



The **OPK-EKI** Optocoupler module provides electrical isolation between these circuits or components while transferring the electrical current between circuits or components of the circuit using a short optical transmission path. Mechanical relays can be used for load cutting as well.

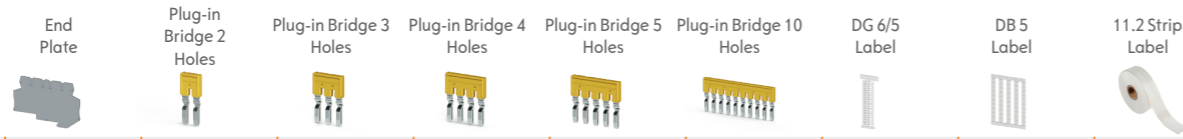
With **WG-EKI** electronic terminals, you can make your system more secure,

With the **FKM** flat cable module, time and cables can be saved,

With **LTM** modules can provide that all the lamps are tested at the same time, as well as the models that let you test each lamp individually.

**DM** diodes prevent overlapping of signals at different levels. Can be used to extinguish the reverse currents generated during the on / off state of inductive loads such as DC relay or coil or magnetic valves in warning signal circuits.

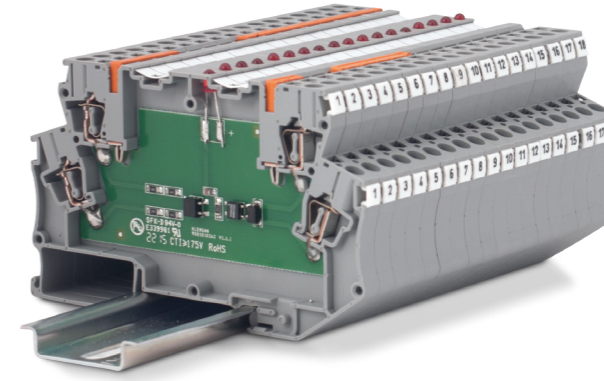
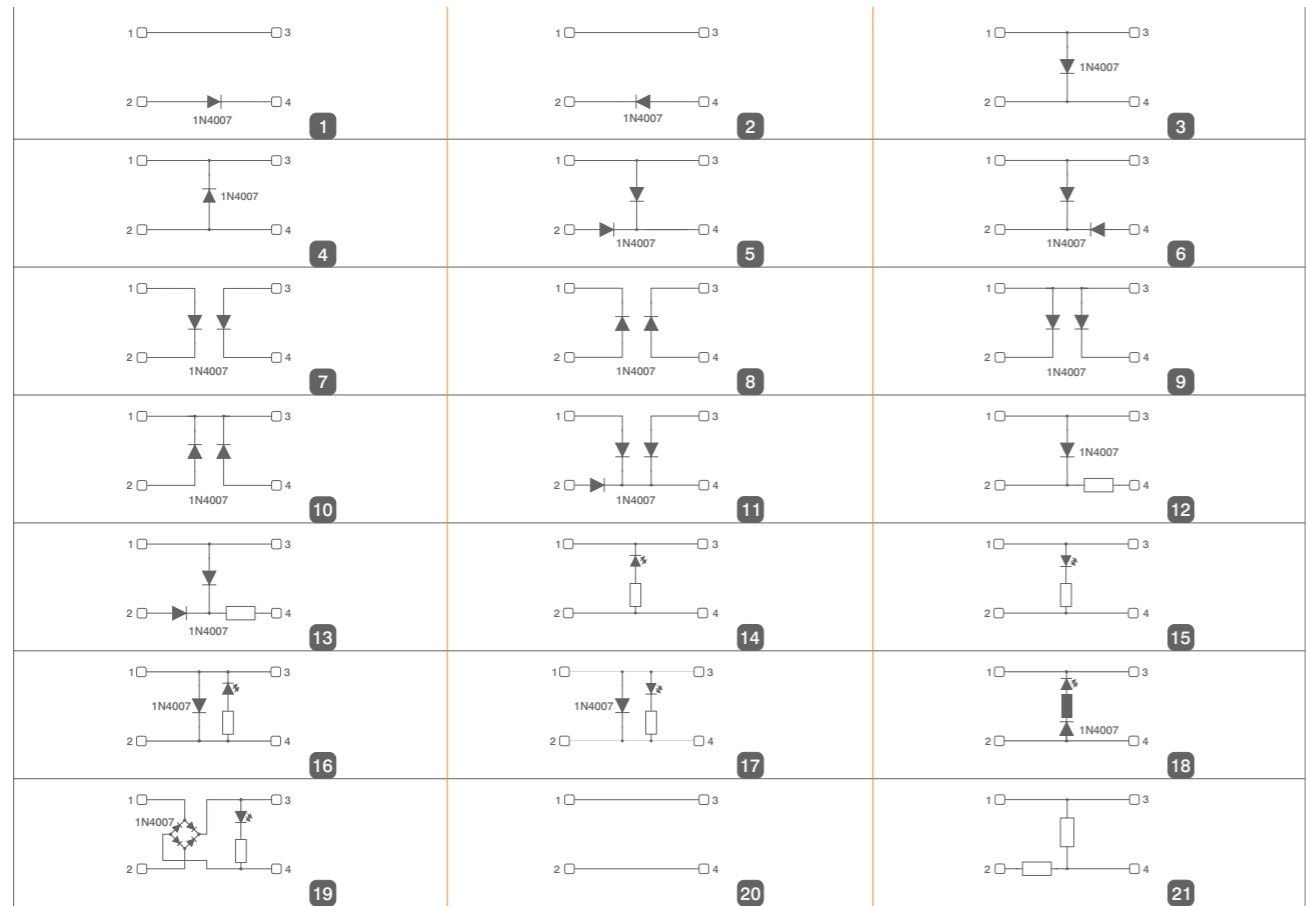
Order No.	Description	Connection	Mounting	Input Voltage	Output		Switching Type	Response Time
					Switching Voltage Range	Max. Switching Current		
112 010N	Optocoupler Module	Spring clamp	Rail	5V AC/DC	5-48V DC	0.65 A DC	High Side	<10ms
112 110N	Optocoupler Module	Spring clamp	Rail	12V AC/DC	5-48V DC	0.65 A DC	High Side	<10ms
112 220N	Optocoupler Module	Spring clamp	Rail	24V AC/DC	5-48V DC	0.65 A DC	High Side	<10ms
112 320N	Optocoupler Module	Spring clamp	Rail	48V AC/DC	5-48V DC	0.65 A DC	High Side	<10ms
112 420N	Optocoupler Module	Spring clamp	Rail	60V AC/DC	5-48V DC	0.65 A DC	High Side	<10ms
112 520N	Optocoupler Module	Spring clamp	Rail	110V AC/DC	5-48V DC	0.65 A DC	High Side	<10ms
112 620N	Optocoupler Module	Spring clamp	Rail	220V AC/DC	5-48V DC	0.65 A DC	High Side	<10ms
112 710N	Optocoupler Module	Spring clamp	Rail	9-72V DC	3-30V DC	5 A DC	High Side	<10ms
112 720N	Optocoupler Module	Spring clamp	Rail	9-72V DC	3-30V DC	5 A DC	Low Taraf	<10ms
112 730N	Optocoupler Module	Spring clamp	Rail	9-72V DC	24-260VAC	0.5 A AC	High Side	<10ms



Order Number	450389	470112	470113	470114	470115	470119	505330	505850	1020100
Packing Qty.	10 pcs.	25 pcs.	20 pcs.	15 pcs.	10 pcs.	5 pcs.	440 pcs.	500 pcs.	1 pcs.

## WG-EKI-N BLOCK DIAGRAMS

Connection	Conductor cross section solid (min.-max.)	Conductor cross section Kemit (min.-max.)	Conductor cross section stranded (min.-max.)	2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve(max.)	Maximum stripping length (min.-max.)	Diode reverse voltage	Diode forward voltage	Diode forward current
Spring Clamp	0.008-4 mm <sup>2</sup>	AVG 28-12	0.8-2.5 mm <sup>2</sup>	0.5 mm <sup>2</sup>	8-10 mm	1000V	0.7V	1A



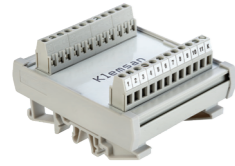
Order No.	Type	Connection Figure	Description	Pack. Pcs.
110 010N	-	1	Reverse connection protection	20
110 020N	-	2	Reverse connection protection	20
110 030N	-	3	Reverse connection protection	20
110 040N	-	4	Reverse connection protection	20
110 050N	-	5	Lamp test	20
110 060N	-	6	Lamp test	20
110 070N	-	7	Reverse connection protection	20
110 080N	-	8	Reverse connection protection	20
110 090N	-	9	Lamp test	20
110 100N	-	10	Lamp test	20
110 110N	-	11	Lamp test	20
110 120N	24VAC/DC	12	Lamp test	20
110 130N	24VAC/DC	13	Lamp test	20
110 140N	24VDC	14	Voltage indicator	20
110 150N	110VDC	14	Voltage indicator	20
110 160N	220VDC	14	Voltage indicator	20
110 170N	24VDC	15	Voltage indicator	20
110 180N	48VAC/DC	15	Voltage indicator	20
110 190N	220VDC	15	Voltage indicator	20
110 200N	24VDC	16	Voltage indicator+flyback diode	20
110 210N	24VDC	17	Voltage indicator+flyback diode	20
110 270N	24VAC/DC	18	Voltage indicator	20
110 280N	48VAC/DC	18	Voltage indicator	20
110 290N	110VAC/DC	18	Voltage indicator	20
110 300N	220VAC/DC	18	Voltage indicator	20
110 310N	24VAC/DC	19	Voltage indicator+rectifier	20
110 320N	110VAC/DC	19	Voltage indicator+rectifier	20
110 330N	220VAC/DC	19	Voltage indicator+rectifier	20
110 380N	-	20	Cross connection	20
110 410N	24VAC/DC	21	Voltage divider	20



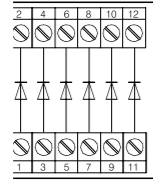
Order Number	450389	470112	470113	470114	470115	470119	505330	505850	1020100
Packing Unit.	10 pcs.	25 pcs.	20 pcs.	15 pcs.	10 pcs.	5 pcs.	440 pcs.	500 pcs.	1 pcs.



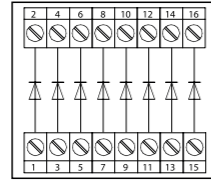
## DM SERIES



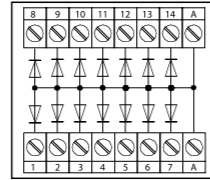
Order No.	Product Name	Description	Packaging Pcs.
113 030	DM3-S	3 Diodes	20
113 051	DM5-A-S	5 Diodes Anot Bridge	20
113 052	DM5-K-S	5 Diodes Cathode Bridge	20
113 060	DM 6-S	6 Diodes	3
113 080	DM 8-S	8 Diodes	3
113 120	DM 12-S	12 Diodes	2
113 141	DM 14A-S	14 Diodes Anot Bridge	3
113 142	DM 14K-S	14 Diodes Cathode Bridge	3
113 221	DM 22A-S	22 Diodes Anot Bridge	2
113 222	DM 22K-S	22 Diodes Cathode Bridge	2



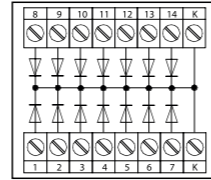
DM 6-S



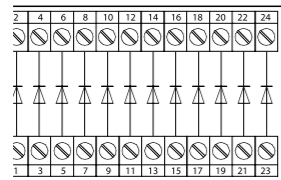
DM 8-S



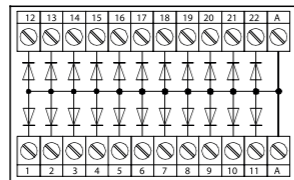
DM 14-A-S



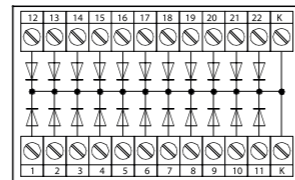
DM 14-K-S



DM 12-S

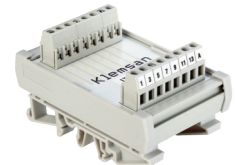


DM 22-A-S

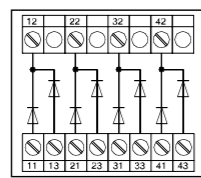


DM 22-K-S

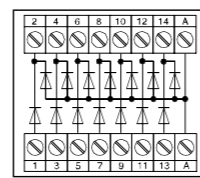
## LTM SERIES



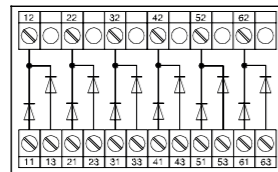
Order No.	Product Name	Description	Pack. Pcs.
114 020	LTM2-S	2 Diodes	20
114 040	LTM 4-S	4 Diodes	3
114 060	LTM 6-S	6 Diodes	2
114 071	LTM 7 A-S	7 Diodes Anot Bridge 11	3
114 111	LTM 11 A-S	Diodes Cathode Bridge	2



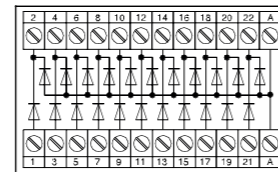
LTM 4-S



LTM 7-A-S

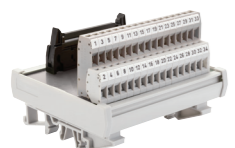


LTM 6-S



LTM 11-A-S

## FKM SERIES



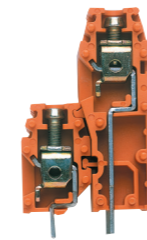
Order No.	Product Name	Description	Pack. Pcs.
116 016	FKM 16	16 Poles	1
116 020	FKM 20	20 Poles	1
116 040	FKM 40	40 Poles	1
116 050	FKM 50	50 Poles	1

## BDK 1 SERIES



Order No.	Product Name	Cross-Section	Definition	Pack. Pcs.
090 117	BDK1	2,5 mm <sup>2</sup>	1-Without end plate	100
090 127	BDK1/2	2,5 mm <sup>2</sup>	2-End plated	100
090 137	BDK1/3	2,5 mm <sup>2</sup>	3-End plated	100
090 147	BDK1/4	2,5 mm <sup>2</sup>	4-End plated	100
090 157	BDK1/5	2,5 mm <sup>2</sup>	5-End plated	50
090 167	BDK1/6	2,5 mm <sup>2</sup>	6-End plated	50
090 177	BDK1/7	2,5 mm <sup>2</sup>	7-End plated	50
090 187	BDK1/8	2,5 mm <sup>2</sup>	8-End plated	50
090 197	BDK1/9	2,5 mm <sup>2</sup>	9-End plated	25
090 207	BDK1/10	2,5 mm <sup>2</sup>	10-End plated	25

## BDK 1-2 SERIES



Order No.	Product Name	Cross-Section	Definition	Pack. Pcs.
090 517	BDK1-2	2,5 mm <sup>2</sup>	1-Without end plate	100
090 527	BDK1-2/2	2,5 mm <sup>2</sup>	2-End plated	50
090 537	BDK1-2/3	2,5 mm <sup>2</sup>	3-End plated	50
090 547	BDK1-2/4	2,5 mm <sup>2</sup>	4-End plated	50
090 557	BDK1-2/5	2,5 mm <sup>2</sup>	5-End plated	25
090 567	BDK1-2/6	2,5 mm <sup>2</sup>	6-End plated	25
090 577	BDK1-2/7	2,5 mm <sup>2</sup>	7-End plated	25
090 587	BDK1-2/8	2,5 mm <sup>2</sup>	8-End plated	25
090 597	BDK1-2/9	2,5 mm <sup>2</sup>	9-End plated	10
090 607	BDK1-2/10	2,5 mm <sup>2</sup>	10-End plated	10
090 667	BDK1-2/16	2,5 mm <sup>2</sup>	16-End plated	10

## BDK SERIES

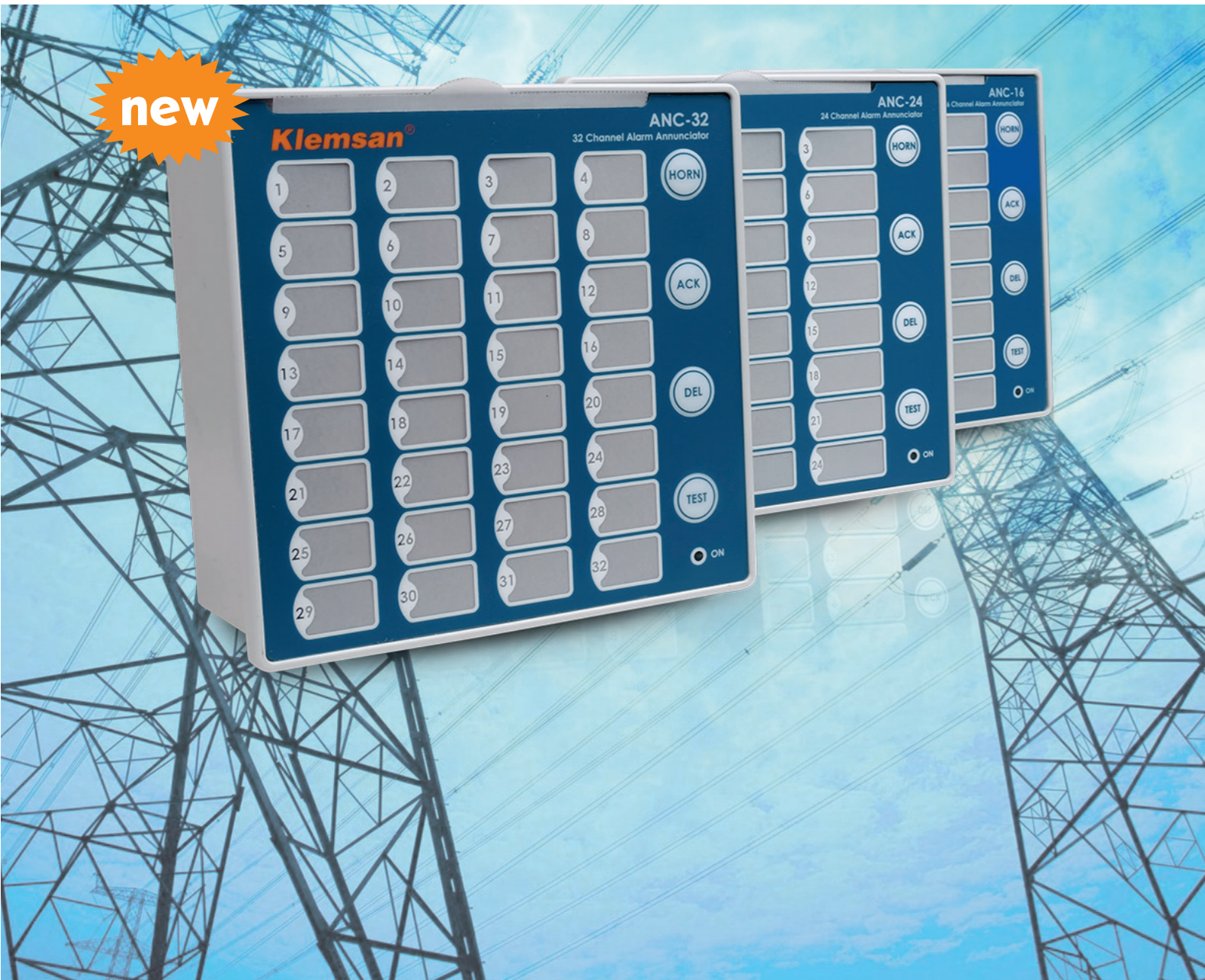
Order No.	Product Name	Definition	Pack. Pcs.
091 017	NPP/BDK1	End Plate for BDK1	100
091 037	NPP/BDK1-2	End Plate for BDK1-2	100

## RA-PP-PK SERIES



Order No.	Product Name	Definition	Pack. Pcs.
498 450	RA10	Rail Adaptor MR 32 / MR 35 - Beige	10
498 459	RA10	Rail Adaptor MR 32 / MR 35 - Grey	10
250 107	RA1	Ray Adaptor	20
250 117	PP1	Small Partition (73mm)	1
250 207	PK1	Side Cover Without Mounting Hole	20
250 217	PK2	Side Cover With Mounting Hole	20

Monitoring  
Controlling Communication  
Visualizing **Data Logging**



Order No.	Product Name	Number of Channel	Input Signal	Supply Voltage	Double colour Indicator	Built-in Buzzer	Memory (6080 events) and Communication (RS-485)	Horn and Alarm Relay	Relay output for each channel	Test, Horn and Del Functions	Delay Time Setting	Signal Inversion	First Alarm / Last Alarm	Internal Battery and RTC	Dimensions
new 604 670	ANC-32	32	24V AC/DC	85-300 AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
new 604 671	ANC-32	32	48V AC/DC	85-300 AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
new 604 672	ANC-32	32	110V AC/DC	85-300 AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
new 604 673	ANC-32	32	220V AC/DC	85-300 AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
new 604 675	ANC-32	32	24V AC/DC	24-50V AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
new 604 676	ANC-32	32	48V AC/DC	24-50V AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
new 604 677	ANC-32	32	110V AC/DC	24-50V AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
new 604 678	ANC-32	32	220V AC/DC	24-50V AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
new 604 660	ANC-24	24	24V AC/DC	85-300 AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
new 604 661	ANC-24	24	48V AC/DC	85-300 AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
new 604 662	ANC-24	24	110V AC/DC	85-300 AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
new 604 663	ANC-24	24	220V AC/DC	85-300 AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
new 604 665	ANC-24	24	24V AC/DC	24-50V AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
new 604 666	ANC-24	24	48V AC/DC	24-50V AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
new 604 667	ANC-24	24	110V AC/DC	24-50V AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
new 604 668	ANC-24	24	220V AC/DC	24-50V AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
604 630	ANC-16	16	24V AC/DC	85-300 AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
604 631	ANC-16	16	48V AC/DC	85-300 AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
604 632	ANC-16	16	110V AC/DC	85-300 AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
604 633	ANC-16	16	220V AC/DC	85-300 AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
604 650	ANC-16	16	24V AC/DC	24-50V AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
604 651	ANC-16	16	48V AC/DC	24-50V AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
604 652	ANC-16	16	110V AC/DC	24-50V AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
604 653	ANC-16	16	220V AC/DC	24-50V AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	144x144
604 620	ANC-8	8	24V AC/DC	110-300V AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	96x96
604 621	ANC-8	8	48V AC/DC	110-300V AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	96x96
604 622	ANC-8	8	110V AC/DC	110-300V AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	96x96
604 623	ANC-8	8	220V AC/DC	110-300V AC/DC	✓	✓	✓	✓		✓	✓	✓	✓	✓	96x96

**ANNUNCIATORS**

An alarm annunciator is an automation device that provides immediate fault recognition, fault identification, visual and audible alarm for an abnormal process situation.

An alarm annunciator monitors input parameters continuously and when a faulty condition occurs, it visualizes alarm status immediately or with adjustable time delay. It provides to control your process through relay outputs and modbus communication. Data logging with real time gives you opportunity to analyze your system.







Table listing product types and categories for page 74, including models like ALRC-6, LSK-4, MEASTRO 110, and DPR 3110.

Table listing product types and categories for page 74, including models like G1-SA, G1-SAP, G1-A, and M1-A.

Table listing product types and categories for page 74, including models like KPR-SCE-115VAC/DC-1C, KPR-SCE-115VDC-1C, and KPR-SCF-115VAC/DC-1C.

Table listing product types and categories for page 74, including models like KPR-SWE-48VAC/DC-2C, KPR-SWE-48VDC-2C, and KPR-SWF-115VAC/DC-2C.

Table listing product types and categories for page 75, including models like TT-RTD-LP-C (-50°C .. 100°C), TT-RTD-LP-C (0°C .. 150°C), and TT-RTD-LP-C (0°C .. 200°C).

Table listing product types and categories for page 75, including models like KPR-SCE-6VDC-1C, KPR-SCE-6VDC-1C (Relay Socket), and KPR-SCE-12VAC/DC-1C.

Table listing product types and categories for page 75, including models like WG-EKI-N, WG-EKI-N, and WG-EKI-N.







# Klemsan

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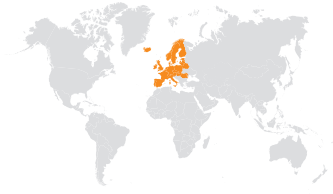
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