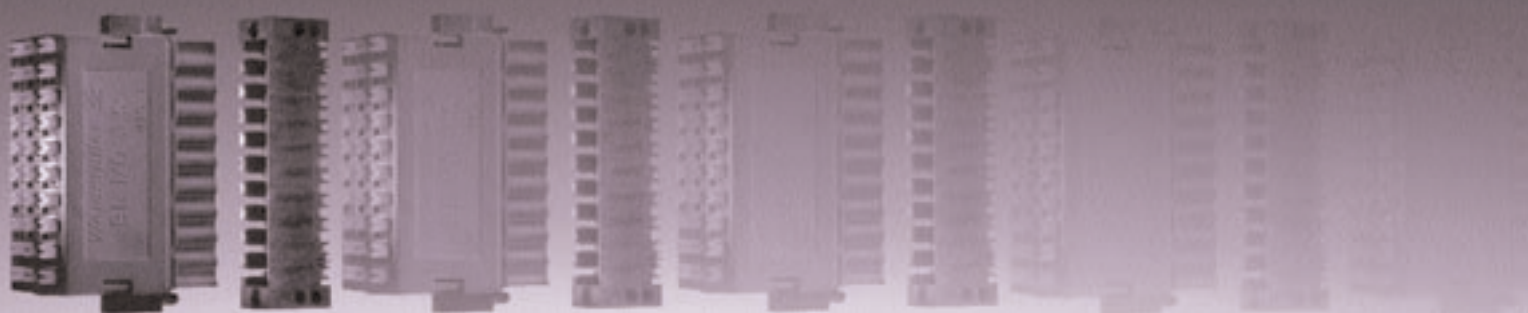


PCB-COMPONENTS  
**PCB-COMPONENTS**



CATALOGUE 2002/03 CATALOGUE 2002/03  
CATALOGUE 2002/03  
**CATALOGUE 2002/03**

CATALOGUE SECTION

MK 7.5

When good enough just isn't good enough

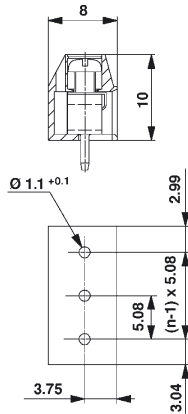
**Weidmüller** 

# Rated cross-section ≤ 1.5 mm<sup>2</sup>



## PM 5.08/90

**new**



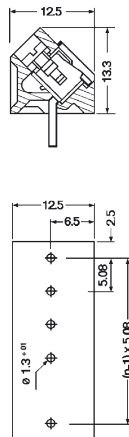
Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	17.5	10	10
Clamping range max.	mm <sup>2</sup> /AWG	1.5	14	14

\*Overvoltage category III / Pollution severity 3  
Additional technical data see page 50

Solder pin length      **3.5 mm**      **3.5 mm**

Colour				
Poles	Type	Cat. No.	Cat. No.	Qty.
2	PM 5.08/2/90	<b>1760490000</b>	<b>1760510000</b>	500
3	PM 5.08/3/90	<b>1760500000</b>	<b>1760520000</b>	500

## MK8 5.08/135



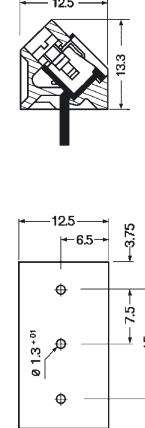
Technical Data		VDE	UL	CSA
Rated voltage	V	160*	150	150
Rated current	A	16	15	15
Clamping range max.	mm <sup>2</sup> /AWG	1.5	14	14

\*Overvoltage category III / Pollution severity 3  
Additional technical data see page 51

Solder pin length      **5.0 mm**

Colour				
Poles	Type	Cat. No.		Qty.
2	MK 8/2	<b>0332060000</b>		200
3	MK 8/3	<b>0307860000</b>		100
4	MK 8/4	<b>0307760000</b>		100
10	MK 8/10	<b>0302660000</b>		50

## MK7.5/135



Technical Data		VDE	UL	CSA
Rated voltage	V	250*	300	300
Rated current	A	16	16	10
Clamping range max.	mm <sup>2</sup> /AWG	1.5	16	16

\*Overvoltage category III / Pollution severity 3  
Additional technical data see page 51

Solder pin length      **5.0 mm**

Colour				
Poles	Type	Cat. No.		Qty.
3	MK 7.5/3	<b>0379260000</b>		100

Accessories	Page
Marking	42
Fixing	-
Miscellaneous	45

Accessories	Page
Marking	42
Fixing	-
Miscellaneous	45

Accessories	Page
Marking	42
Fixing	-
Miscellaneous	45

Materials	MK8 5.08	MK7.5				
Insulation material	PA 66	PA 66				
Colour <sup>1)</sup>	orange	orange				
Temperature range	-20... +100	-20... +100				
Flammability class.	V-2	V-2				
Contact base material	CuZn	CuZn				
Contact plating	tin-plated	tin-plated				
System characteristic values						
Pitch	5.08	7.50				
Connection method	leaf spring connection	leaf spring connection				
Solder pin length	5.0	5.0				
PCB hole diameter	1.3 <sup>+0.1</sup>	1.3 <sup>+0.1</sup>				
Insulation stripping length	6.0	6.0				
Clamping screw	2.5	2.5				
Insulation resistance	≥ 10 <sup>3</sup>	≥ 10 <sup>3</sup>				
Through resistance	≤ 0.5	≤ 0.5				
Torque	0.4 ...0.5	0.4 ...0.5				
Conductor size						
Clamping range	0.5... 1.5	0.5... 1.5				
"e" solid H05(07) V-U	0.5... 1.5	0.5... 1.5				
"f" flexible H05(07) V-K	0.5... 1.5	0.5... 1.5				
"f" with ferrule to DIN 46228/1	0.5... 1.0	0.5... 1.0				
... with plastic collar to DIN 46228/4	–	–				
Gauge to EN 60999	2.4 x 1.5 (A1)	2.4 x 1.5 (A1)				
VDE 0110 1.89 rated data						
Rated cross-section to EN 60999	1.5	1.5				
Rated current <sup>3)</sup>	16	16				
Overvoltage category / Pollution severity	III/3	III/2	II/2	III/3	III/2	II/2
Rated voltage	160	100	150	250	400	630
Impulse voltage	1.5	1.5	1.5	4.0	4.0	4.0
UL rated data						
Rated voltage, industrial	150	300				
Rated current	15	16				
AWG conductor (field wiring)	22... 14	22... 16				
CSA rated data						
Rated voltage, industrial	150	300				
Rated current	15	10				
AWG conductor (field wiring)	22... 14	22... 16				
Application notes						
1) additional colours on request	Ordering data: page 12	Ordering data: page 12				
3) referred to 20°C ambient temperature, rated cross-section and number of poles						

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relate only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity is to be determined according to DIN IEC 326 part 3.

Weidmüller connectors are tested according to the DIN VDE 0627 standard, and are valid for its field of applications. Provided that the connectors are used for the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

## Accessories Selection Matrix

		Marking systems	LED holders and marker carrier	Fuse and disconnect elements	Fixing blocks	Cross-connections	Adaptor plates	Fixing plates
Rated cross-section	PCB Terminal Accessories	Page 40-42	Page 43	Page 44	Page 45-46	Page 45	Page 46	Page 46
1.5 mm <sup>2</sup>	PM 5.08	KSW 4, KSW 2.5						
	MK 8	KSW 2.5						
	MK 7.5	KSW 2.5				LPA QB		
	LM 3.5 all versions	KSW 4, KSW 2.5						
	LM 5.00 all versions	KSW 4, KSW 2.5						
	LM 5.08 all versions	KSW 4, KSW 2.5						
	TOP1.5GS all versions	KSW 2.5			TOP1.5GS BB			
	LMZF 5.08 all versions	KSW 2.5						
2.5 mm <sup>2</sup>	LP 5.08/90	DEK 5	LPA FA, LPA FA BZ, LPA BZ	LPA SI, LPA TR	LP BB	LPA QB	LPZP/90	LPHP
	LP 5.00/90	DEK 5			LP BB		LPZP/90	
	LP 7.50/90	DEK 5			LP BB		LPZP/90	
	LP 7.62/90	DEK 5			LP BB		LPZP/90	LPHP
	LP 10.00/90	DEK 5			LP BB		LPZP/90	
	LP 15.00/90	DEK 5			LP BB		LPZP/90	
	LP2N 5.08	DEK 5	LPA BZ		LP BB	LPA QB	LPZP1N LPZP2.54/90	
	LP2N Pitch 5.00, 7.50, 7.62	DEK 5			LP BB		LPZP1N LPZP2.54/90	
	LP2H 5.08	DEK 5	LPA BZ			LPA QB		
	LP2HR 5.08	DEK 5	LPA BZ			LPA QB		
	LP3R 5.08	DEK 5	LPA BZ		LP BB	LPA QB		
	LPP 5.08/90	DEK 5	LPA FA, LPABZ LPA FA BZ	LPA SI, LPA TR	LP BB	LPA QB	LPZP/90	
	LPP/90 Pitch 5.00, 7.50, 7.62	DEK 5	LPA BZ		LP BB		LPZP/90	
	LP1N 5.08	DEK 5	LPA BZ			LPA QB	LPZP1N	
	LP1N 5.00	DEK 5						
	LP1H 5.08	DEK 5	LPA BZ			LPA QB		
	LP/135 all pitches	DEK 5				LPA QB <sup>1)</sup>	LPZP/135	
	LP/180 all pitches	DEK 5			LP BB	LPA QB <sup>1)</sup>	LPZP/90	
	LPZF 5.08/180	KSW 2.5						
LPTR 5.08/1/90	DEK 5			LP BB		LPZP/90		
4.0 mm <sup>2</sup>	LL 9.5	KSW4, KSW 2.5						
	TOP4GS/90 all pitches	S10						
	TOP4GS/180 all pitches	S10						
10.0 mm <sup>2</sup>	LU/90 all pitches	KSW4, KSW2.5, DEK 5						
	GSE 10	KSW4, KSW2.5, DEK 5						
25.0 mm <sup>2</sup>	LX 15.00	KSW4, KSW2.5, DEK 5						
Accessories		LPA FA BZ, LPA BZ	WS 10/5 a. WS 12/5					
	LPA SI	DEK 5						
	LPA TR	DEK 5, WS 3						

1) only pitch 5.08 mm

# Dekafix System DEK 5



Horizontal printing



Strip mounting



Vertical printing



Individual tag mounting

The Dekafix marking system can be used with the **LX 15.00**, **LU 10.16** and **GSE 10** as well as with the **System LP** (with the exception of LPZF and its accessories).

Dekafix is supplied in packs of 10 cards with 50 tags per card. The standard colour is white with black text.

## Technical data

Material	Polyamide
Temperature range	-40°C ... +100°C
Flammability class	UL 94 V-2
Components	silicone-free halogens below limit of detection
Assembly	Strip or individual tag assembly depending on stackability of the terminals
Print	Standard or custom, print colour black
Smudge resistance	Smudge resistant to DIN IEC 50
Custom print	From customer's list or data exchange via disk or modem
Colour	Available in colours of the international resistance code
max. digits DEK 5	3 horizontal, 3 vertical up to 2.5 mm type size

## Custom print (cat. no. with colour code for ordering !)

Colour	Cat. No.	Colour	Cat. No.	Colour	Cat. No.	Qty. 500
● black	<b>1609810000</b>	● yellow	<b>0490791687</b>	● violet	<b>0490791689</b>	
● brown	<b>1609810000</b>	● green	<b>0490791688</b>	● grey	<b>1609810000</b>	
● red	<b>0490791686</b>	● blue	<b>1609810000</b>	○ white	<b>0490790000</b>	
● orange	<b>1609810000</b>					

## Neutral

Colour	Cat. No.	Colour	Cat. No.	Colour	Cat. No.	Qty. 500
● black	<b>0473391694</b>	● yellow	<b>1609801687</b>	● violet	<b>0473391689</b>	
● brown	<b>0473391692</b>	● green	<b>0473391688</b>	● grey	<b>0473391691</b>	
● red	<b>1609801686</b>	● blue	<b>0473391693</b>	○ white	<b>0473360000</b>	
● orange	<b>0473391690</b>					

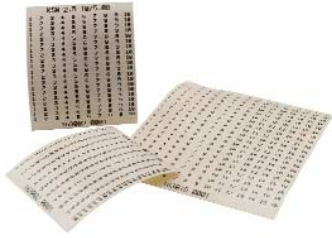
## Ordering data

(only horizontal)	Print	Cat. No.
Printing	A	<b>0522761021</b>
individual letters	B	<b>0522761022</b>
	C	<b>0522761023</b>
	D	<b>0522761024</b>
E	<b>0522761025</b>	
F	<b>0522761026</b>	
G	<b>0522761027</b>	
H	<b>0522761028</b>	
I	<b>0522761029</b>	
J	<b>0522761030</b>	
K	<b>0522761031</b>	
L	<b>0522761032</b>	
M	<b>0522761033</b>	
N	<b>0522761034</b>	
O	<b>0522761035</b>	
P	<b>0522761036</b>	
Q	<b>0522761037</b>	
R	<b>0522761038</b>	
S	<b>0522761039</b>	
T	<b>0522761040</b>	
U	<b>0522761041</b>	
V	<b>0522761042</b>	
W	<b>0522761043</b>	
X	<b>0522761044</b>	
Y	<b>0522761045</b>	
Z	<b>0522761046</b>	

	Print	Cat. No. horizontal	Cat. No. vertical
Printing 50 digits in series	1 ... 50	<b>0473460001</b>	<b>0473560001</b>
	51 ... 100	<b>0473460051</b>	<b>0473560051</b>
	to	The last 3 digits of the Cat No. are the first printed number	
	951 ... 999	<b>0473460951</b>	<b>0473560951</b>
Printing 10 digits in series	1 ... 10	<b>0523060001</b>	<b>0460660001</b>
	11 ... 20	<b>0523060011</b>	<b>0460660011</b>
	bis	Die letzten 3 Zahlen der Best.-Nr zeigen die erste Druckzahl	
	91 ... 100	<b>0523060091</b>	<b>0460660091</b>
Beschriftung einzelne Zahlen	1	<b>0522660001</b>	-
	2	<b>0522660002</b>	-
	to	The last 3 digits of the Cat No. are the first printed number	
	200	<b>0522660200</b>	-
Printing various symbols	L1, L2, L3, N, PE	<b>0354361187</b>	-
Printing individual symbols	Plus symbol +	<b>0576261198</b>	-
	Minus symbol -	<b>0576261199</b>	-
	PE	-	<b>0157261187</b>
	L1	<b>0522361075</b>	-
	L2	<b>0522361076</b>	-
	L3	<b>0522361077</b>	-
	Earth symbol (ground)	<b>0576261202</b>	<b>0157261202</b>
	Earth symbol in circle	<b>0576261203</b>	<b>0157261203</b>
	Alternating current ~	<b>0576261215</b>	-
Blank, white (Card)	-	<b>1609801044</b>	<b>1609801044</b>
Custom print (please state print and direction with order)		<b>0490760000</b>	<b>0490760000</b>
Coloured Dekafix blank (please state colour with order)		<b>0473390000</b>	<b>0473390000</b>
Coloured Dekafix printed = custom print (please state colour and print with order)		<b>0490790000</b>	<b>0490790000</b>



## Marking Strips KSW



The white self-adhesive KSW marking strips are available in 2 widths:

### KSW 4

Width (mm)	Pitch	also suitable for
4.0	3.50 mm	–
	5.08 mm	5.00 mm
	7.50 mm	7.62 mm
	10.16 mm	

KSW 4 can be used with the systems **PM 5.08**, **LM 3.5**, **LM 5.00/5.08**, **LU 10.16**, **LL 9.5** and **LX 15.00**.

### KSW 2.5

Width (mm)	Pitch	also suitable for
2.5	3.50 mm	–
	5.08 mm	5.00 mm
	7.50 mm	–

KSW 2.5 can be used with **MK 8**, **MK 7.5**, **LPZF 5.08**, **System LMZF 5.08**, **TOP 1.5GS**, **LX 15.00**, and of course everywhere where KSW 4 can be used.

Example for TOP 1.5 GS with KSW 2.5



## Ordering data

Pitch mm	Type	Print	Strips per sheet	Cat. No.
5.00	KSW 2.5 16/5.00	1...16	20	1630070001
5.00	KSW 2.5 20/5.00	1...20	20	1630080001
5.00	KSW 2.5 20/5.00	21...40	20	1630080021
5.00	KSW 2.5 20/5.00	41...60	20	1630080041
5.00	KSW 2.5 20/5.00	61...80	20	1630080061
5.00	KSW 4 12/5.00	1...12	20	1630130001
5.00	KSW 4 12/5.00	13...24	20	1630130013
5.00	KSW 4 18/5.00	1...18	20	1630170001
5.08	KSW 2.5 10/5.08	1...10	20	1630020001
5.08	KSW 2.5 10/5.08	11...20	20	1630020011
5.08	KSW 2.5 15/5.08	1...150	20	1630050001
5.08	KSW 2.5 15/5.08	1...15	20	1630060001
5.08	KSW 2.5 15/5.08	151...300	20	1630050151
5.08	KSW 2.5 15/5.08	301...450	20	1630050301
5.08	KSW 2.5 8/5.08	1...8	20	1630100001
5.08	KSW 2.5 8/5.08	9...16	20	1630100009
5.08	KSW 2.5 8/5.08	A...H	20	1630101021
5.08	KSW 4 16/5.08	1...16	20	1630160001
5.08	KSW 4 16/5.08	17...32	20	1630160017
5.08	KSW 4 16/5.08	33...48	20	1630160033
5.08	KSW 4 16/5.08	49...64	20	1630160049
5.08	KSW 4 16/5.08	65...80	20	1630160065
5.08	KSW 4 16/5.08	81...96	20	1630160081
5.08	KSW 4 24/5.08	1...24	20	1630180001
5.08	KSW 4 8/5.08	1...8	20	1630200001
5.08	KSW 4 16/5.08	25...32	20	1630200025
5.08	KSW 4 16/5.08	33...40	20	1630200033
5.08	KSW 4 16/5.08	41...48	20	1630200041
7.50	KSW 2.5 10/7.50	1...100	20	1630030001
7.50	KSW 2.5 10/7.50	1...10	20	1630040001
7.50	KSW 2.5 10/7.50	101...200	20	1630030101
7.50	KSW 2.5 10/7.50	201...300	20	1630030201
7.50	KSW 2.5 10/7.50	301...400	20	1630030301
7.50	KSW 2.5 10/7.50	401...500	20	1630030401
7.50	KSW 4 12/7.50	1...12	20	1630140001
7.50	KSW 4 12/7.50	13...24	20	1630140013
7.50	KSW 4 12/7.50	25...36	20	1630140025
7.50	KSW 4 12/7.50	37...48	20	1630140037
7.50	KSW 4 12/7.50	49...60	20	1630140049
7.62	KSW 4 12/7.62	1...12	20	1652270001
7.62	KSW 4 12/7.62	13...24	20	1652270013
9.52				on request
10.16	KSW 2.5 4/10.16	1...4	20	1630090001
15.00				on request

## Technical data KSW

Material	Polyester with smooth surface
Adhesive	On acrylate basis
Adhesive strength (strip width 25 mm)	DIN 51221 on steel: 19N, polypropylene: 12 N, polyethylene: 10 N
Temperature range	-40°C to +150°C
min. temperature for adhesion	+ 4°C
Flammability	Self-extinguishing within 15 seconds; does not drip

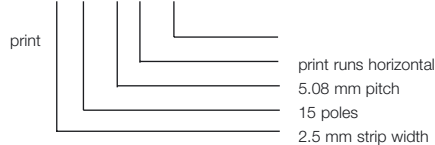
## Direct printing

Apart from the standard print, we can also offer custom printing for all pitches.

Pitch mm	Type	Length mm	Print	Cat. No.
all	KSW 2.5	<50	custom print	1629900000
all	KSW 2.5	<100	custom print	1629920000
all	KSW 2.5	<150	custom print	1629940000
all	KSW 4	<50	custom print	1629910000
all	KSW 4	<100	custom print	1629930000
all	KSW 4	<150	custom print	1629950000
all	KSW 2.5	<50	neutral	1629960000
all	KSW 2.5	<100	neutral	1629980000
all	KSW 2.5	<150	neutral	1630000000
all	KSW 4	<50	neutral	1629970000
all	KSW 4	<100	neutral	1629990000
all	KSW 4	<150	neutral	1630010000

## Ordering example

Cat. No. 163006 001  
KSW 2.5 15/5.08 W 1...15



## STI marking pen



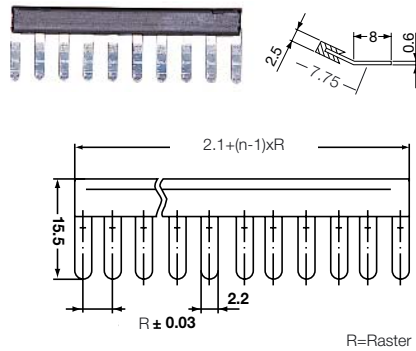
permanent marker, black,  
waterproof, smudge resistant

Type	Cat. No.
STI-S fine	0508401694
STI-F thick	1632480000

## Screwdriver



## Cross-Connections



The cross-connection combs permit post-assembly potential distribution across several poles and eliminates the need for time-consuming bridging. The use of cross-connection combs reduces the possible cable size to the next lowest wire gauge. Cross-connections are available for various pitches and poles. Pole numbers and pitches not available can be made directly by the customer by snipping off excess cross-connections from the comb using a suitable tool.

## Fixing Block for TOP's



For modular assembly of the TOP1.5GS PCB terminals there is a fixing set available for the PCB. This set consists of a plastic block and the appropriate self-tapping screw (2.9 x 19 mm). It can be used with both the 90° and the 180° versions.

### Ordering data

Type	Clamping screw	Product	Cat. No.
SDI	M2	LM3.5	<b>9008370000</b>
0.4 x 2.5 x 75			
SD	M2.5	LM 5.0x	<b>9008330000</b>
0.6 x 3.5 x 100			
		TOP1.5GS	
		LMT 5.08	
		PM 5.08	
		MK 8	
		MK 7.5	
SD	M3	System LP	<b>9008400000</b>
0.8 x 4.0 x 100			
		TOP4GS	
SDI	M4	LU 10.16	<b>9008420000</b>
1.2 x 6.5 x 150			
		GSE 10	
SD	M5	LX 15.00	<b>9008350000</b>
1.0 x 5.5 x 125			

### Ordering data

Poles	Pitch	Type	Cat. No.	Qty.
2	5.08 mm	LPA QB2	<b>1472200000</b>	50
3	5.08 mm	LPA QB3	<b>1472300000</b>	50
4	5.08 mm	LPA QB4	<b>1472400000</b>	50
10	5.08 mm	LPA QB10	<b>1472500000</b>	20
17	5.08 mm	LPA QB17	<b>1584770000</b>	20
24	5.08 mm	LPA QB24	<b>1472600000</b>	20

### Ordering data

Type	Cat. No.	Qty.
TOP1.5GS BB OR	<b>1539860000</b>	20

## Insertion Tool

### Spring displacement tool for tension clamp PCB terminals



SD 0.6 x 3.5 x 100 (DIN 5264-A)

To displace the tension clamp you do not need a special tool. The channel on the pcb terminal will take a standard screwdriver 0.6 x 3.5 x 100 according to DIN 5264-A with a flat blade.

### Bestelldaten

Type	can be used for	Cat. No.	Qty.
SD 0.6 x 3.5 x 100	all LMZF 5.08 and LPZF 5.08	<b>9008330000</b>	10

## Ferrules / Tools

Weidmueller supplies a comprehensive range of ferrules, including for example twin ferrules for attaching two wires to one cable entry.

For more information also ask for our sectional catalogue "Tools" (cat. no. 5629030000), or consult your nearest Weidmueller Sales Engineer or Representative. They will be only too pleased to assist.