

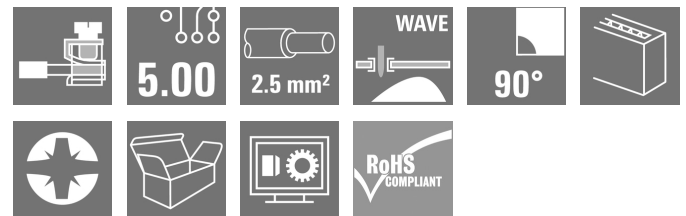
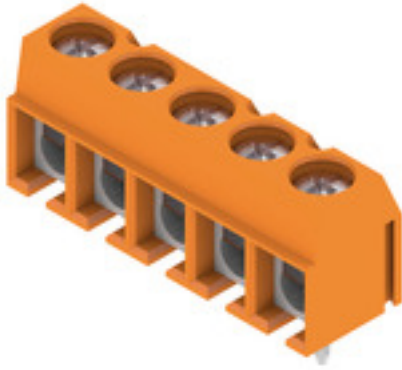
**PM 5.00/05/90 3.5SN OR BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

PCB terminal with leaf spring connection at 5.00 and 5.08 mm pitch. Conductor outlet direction 90°. Suitable for conductor cross-sections up to 2.5 mm<sup>2</sup>.

**General ordering data**

|              |                                                                                                                                                                                               |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version      | Printed circuit board terminals, 5.00 mm, Number of poles: 5, 90°, Solder pin length (l): 3.5 mm, tinned, orange, Pressure clamp connection, Clamping range, max. : 2.5 mm <sup>2</sup> , Box |
| Order No.    | <a href="#">1234670000</a>                                                                                                                                                                    |
| Type         | PM 5.00/05/90 3.5SN OR BX                                                                                                                                                                     |
| GTIN (EAN)   | 4050118019100                                                                                                                                                                                 |
| Qty.         | 100 pc(s).                                                                                                                                                                                    |
| Product data | IEC: 600 V / 24 A / 0.13 - 2.5 mm <sup>2</sup><br>UL: 300 V / 15 A / AWG 26 - AWG 14                                                                                                          |
| Packaging    | Box                                                                                                                                                                                           |

Creation date August 29, 2024 5:38:22 PM CEST

## PM 5.00/05/90 3.5SN OR BX

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## Technical data

## Dimensions and weights

|                          |            |                 |            |
|--------------------------|------------|-----------------|------------|
| Depth                    | 8 mm       | Depth (inches)  | 0.315 inch |
| Height                   | 13.5 mm    | Height (inches) | 0.531 inch |
| Height of lowest version | 10 mm      | Width           | 25.6 mm    |
| Width (inches)           | 1.008 inch | Net weight      | 4.36 g     |

## System parameters

|                                                   |                                                |                                              |                           |
|---------------------------------------------------|------------------------------------------------|----------------------------------------------|---------------------------|
| Product family                                    | OMNIMATE Signal - series PM                    | Wire connection method                       | Pressure clamp connection |
| Mounting onto the PCB                             | THT solder connection                          | Conductor outlet direction                   | 90°                       |
| Pitch in mm (P)                                   | 5 mm                                           | Pitch in inches (P)                          | 0.197 "                   |
| Number of poles                                   | 5                                              | Pin series quantity                          | 1                         |
| Fitted by customer                                | Yes                                            | Number of rows                               | 1                         |
| Max. adjacent poles per row                       | 24                                             | Solder pin length (l)                        | 3.5 mm                    |
| Solder pin dimensions                             | d = 1.0 mm                                     | Solder eyelet hole diameter (D)              | 1.3 mm                    |
| Solder eyelet hole diameter tolerance (D)+ 0,1 mm |                                                | Number of solder pins per pole               | 1                         |
| Screwdriver blade                                 | 0.6 x 3.5                                      | Screwdriver blade standard                   | DIN 5264                  |
| Tightening torque, min.                           | 0.4 Nm                                         | Tightening torque, max.                      | 0.5 Nm                    |
| Clamping screw                                    | M 2.5                                          | Stripping length                             | 6 mm                      |
| L1 in mm                                          | 20 mm                                          | L1 in inches                                 | 0.787 "                   |
| Touch-safe protection acc. to DIN VDE 0470        | IP 20, above the PCB; with conductor connected | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch    |
| Protection degree                                 | IP20                                           |                                              |                           |

## Material data

|                                       |                                    |                                       |        |
|---------------------------------------|------------------------------------|---------------------------------------|--------|
| Insulating material                   | Wemid (PA)                         | Colour                                | orange |
| Colour chart (similar)                | RAL 2000                           | Insulating material group             | I      |
| Comparative Tracking Index (CTI)      | ≥ 600                              | UL 94 flammability rating             | V-0    |
| Contact material                      | Cu-alloy                           | Contact surface                       | tinned |
| Coating                               | 1-3 µm Ni, 4-6 µm SN               | Tinning type                          | matt   |
| Layer structure of solder connection  | 1.5...3.5 µm Ni / 4...6 µm Sn matt | Storage temperature, min.             | -40 °C |
| Storage temperature, max.             | 70 °C                              | Operating temperature, min.           | -50 °C |
| Operating temperature, max.           | 120 °C                             | Temperature range, installation, min. | -25 °C |
| Temperature range, installation, max. | 120 °C                             |                                       |        |

## Conductors suitable for connection

|                                                                      |                      |
|----------------------------------------------------------------------|----------------------|
| Clamping range, min.                                                 | 0.13 mm <sup>2</sup> |
| Clamping range, max.                                                 | 2.5 mm <sup>2</sup>  |
| Wire connection cross section AWG, min.                              | AWG 26               |
| Wire connection cross section AWG, max.                              | AWG 14               |
| Solid, min. H05(07) V-U                                              | 0.13 mm <sup>2</sup> |
| Solid, max. H05(07) V-U                                              | 2.5 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K                                           | 0.13 mm <sup>2</sup> |
| Flexible, max. H05(07) V-K                                           | 2.5 mm <sup>2</sup>  |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.25 mm <sup>2</sup> min. |                      |
| w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm <sup>2</sup> max.  |                      |
| w. wire end ferrule, DIN 46228 pt 1, 0.25 mm <sup>2</sup> min.       |                      |

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w. wire end ferrule, DIN 46228 pt 1, max. 1.5 mm<sup>2</sup>

|                     |                                        |                              |                              |      |
|---------------------|----------------------------------------|------------------------------|------------------------------|------|
| Clampable conductor | Cross-section for conductor connection | Type                         | fine-wired                   |      |
|                     |                                        | nominal                      | 0.5 mm <sup>2</sup>          |      |
|                     | wire end ferrule                       | Stripping length             | nominal                      | 8 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H0.5/12 OR</a>   |      |
|                     |                                        | Stripping length             | nominal                      | 6 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H0.5/6</a>       |      |
|                     | Cross-section for conductor connection | Type                         | fine-wired                   |      |
|                     |                                        | nominal                      | 0.75 mm <sup>2</sup>         |      |
|                     | wire end ferrule                       | Stripping length             | nominal                      | 8 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H0.75/12 W</a>   |      |
|                     |                                        | Stripping length             | nominal                      | 6 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H0.75/6</a>      |      |
|                     | Cross-section for conductor connection | Type                         | fine-wired                   |      |
|                     |                                        | nominal                      | 1 mm <sup>2</sup>            |      |
|                     | wire end ferrule                       | Stripping length             | nominal                      | 8 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H1.0/12 GE</a>   |      |
|                     |                                        | Stripping length             | nominal                      | 6 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H1.0/6</a>       |      |
|                     | Cross-section for conductor connection | Type                         | fine-wired                   |      |
|                     |                                        | nominal                      | 0.25 mm <sup>2</sup>         |      |
|                     | wire end ferrule                       | Stripping length             | nominal                      | 8 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H0.25/10 HBL</a> |      |
|                     |                                        | Stripping length             | nominal                      | 5 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H0.25/5</a>      |      |
|                     | Cross-section for conductor connection | Type                         | fine-wired                   |      |
|                     |                                        | nominal                      | 0.34 mm <sup>2</sup>         |      |
|                     | wire end ferrule                       | Stripping length             | nominal                      | 8 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H0.34/10 TK</a>  |      |

Reference text Length of ferrules is to be chosen depending on the product and the rated voltage.. The outside diameter of the plastic collar should not be larger than the pitch (P)

## Rated data acc. to IEC

|                                                                           |       |                                                                       |                   |
|---------------------------------------------------------------------------|-------|-----------------------------------------------------------------------|-------------------|
| tested acc. to standard                                                   |       | IEC 60664-1, IEC 61984                                                |                   |
| Rated current, max. number of poles (Tu=20°C)                             | 24 A  | Rated current, min. number of poles (Tu=20°C)                         | 24 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 24 A  | Rated current, min. number of poles (Tu=40°C)                         | 24 A              |
| Rated voltage for surge voltage class / pollution degree III/2            | 250 V | Rated voltage for surge voltage class / pollution degree II/2         | 600 V             |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 4 kV  | Rated voltage for surge voltage class / pollution degree III/3        | 250 V             |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV  | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV              |
|                                                                           |       | Short-time withstand current resistance                               | 3 x 1s with 120 A |

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## Technical data

## Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

200039-1815154

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Rated voltage (Use group B / CSA) | 300 V                                                                  |
| Rated current (Use group B / CSA) | 15 A                                                                   |
| Wire cross-section, AWG, min.     | AWG 26                                                                 |
| Reference to approval values      | Specifications are maximum values, details - see approval certificate. |

|                                   |        |
|-----------------------------------|--------|
| Rated voltage (Use group D / CSA) | 300 V  |
| Rated current (Use group D / CSA) | 10 A   |
| Wire cross-section, AWG, max.     | AWG 14 |

## Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

|                                       |                                                                        |
|---------------------------------------|------------------------------------------------------------------------|
| Rated voltage (Use group B / UL 1059) | 300 V                                                                  |
| Rated current (Use group B / UL 1059) | 15 A                                                                   |
| Wire cross-section, AWG, min.         | AWG 26                                                                 |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate. |

|                                       |        |
|---------------------------------------|--------|
| Rated voltage (Use group D / UL 1059) | 300 V  |
| Rated current (Use group D / UL 1059) | 10 A   |
| Wire cross-section, AWG, max.         | AWG 14 |

## Packing

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 332 mm |
| VPE width | 141 mm | VPE height | 52 mm  |

## Type tests

|                              |            |                                                                                                                     |
|------------------------------|------------|---------------------------------------------------------------------------------------------------------------------|
| Test: Durability of markings | Test       | mark of origin, type identification, pitch, type of material, approval marking UL, approval marking CSA, durability |
|                              | Evaluation | available                                                                                                           |

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|                                                           |                |                                                                                    |                               |
|-----------------------------------------------------------|----------------|------------------------------------------------------------------------------------|-------------------------------|
| Test: Clampable cross section                             | Standard       | DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.02 |                               |
|                                                           | Conductor type | Type of conductor and conductor cross-section                                      | solid 0.14 mm <sup>2</sup>    |
|                                                           |                | Type of conductor and conductor cross-section                                      | stranded 0.14 mm <sup>2</sup> |
|                                                           |                | Type of conductor and conductor cross-section                                      | solid 2.5 mm <sup>2</sup>     |
|                                                           |                | Type of conductor and conductor cross-section                                      | stranded 2.5 mm <sup>2</sup>  |
|                                                           |                | Type of conductor and conductor cross-section                                      | AWG 26/1                      |
|                                                           |                | Type of conductor and conductor cross-section                                      | AWG 26/19                     |
|                                                           |                | Type of conductor and conductor cross-section                                      | AWG 14/1                      |
|                                                           |                | Type of conductor and conductor cross-section                                      | AWG 14/19                     |
|                                                           | Evaluation     | passed                                                                             |                               |
| Test for damage to and accidental loosening of conductors | Standard       | DIN EN 60999-1 section 9.4 / 12.00                                                 |                               |
|                                                           | Requirement    | 0.2 kg                                                                             |                               |
|                                                           | Conductor type | Type of conductor and conductor cross-section                                      | stranded 0.25 mm <sup>2</sup> |
|                                                           |                | Type of conductor and conductor cross-section                                      | AWG 26/1                      |
|                                                           |                | Type of conductor and conductor cross-section                                      | AWG 26/19                     |
|                                                           | Evaluation     | passed                                                                             |                               |
|                                                           | Requirement    | 0.3 kg                                                                             |                               |
|                                                           | Conductor type | Type of conductor and conductor cross-section                                      | solid 0.5 mm <sup>2</sup>     |
|                                                           |                |                                                                                    |                               |
|                                                           | Evaluation     | passed                                                                             |                               |
|                                                           | Requirement    | 0.7 kg                                                                             |                               |
|                                                           | Conductor type | Type of conductor and conductor cross-section                                      | solid 2.5 mm <sup>2</sup>     |
|                                                           |                | Type of conductor and conductor cross-section                                      | stranded 2.5 mm <sup>2</sup>  |
|                                                           |                | Type of conductor and conductor cross-section                                      | AWG 14/1                      |
|                                                           |                | Type of conductor and conductor cross-section                                      | AWG 14/19                     |
|                                                           | Evaluation     | passed                                                                             |                               |

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|               |                |                                                                             |
|---------------|----------------|-----------------------------------------------------------------------------|
| Pull-out test | Standard       | DIN EN 60999-1 section 9.5 / 12.00                                          |
|               | Requirement    | ≥10 N                                                                       |
|               | Conductor type | Type of conductor and stranded 0.25 mm <sup>2</sup> conductor cross-section |
|               |                | Type of conductor and AWG 26/1 conductor cross-section                      |
|               |                | Type of conductor and AWG 26/19 conductor cross-section                     |
|               | Evaluation     | passed                                                                      |
|               | Requirement    | ≥20 N                                                                       |
|               | Conductor type | Type of conductor and H05V-K0.5 conductor cross-section                     |
|               |                |                                                                             |
|               | Evaluation     | passed                                                                      |
|               | Requirement    | ≥50 N                                                                       |
|               | Conductor type | Type of conductor and H07V-U2.5 conductor cross-section                     |
|               |                | Type of conductor and H07V-K2.5 conductor cross-section                     |
|               |                | Type of conductor and AWG 14/1 conductor cross-section                      |
|               |                | Type of conductor and AWG 14/19 conductor cross-section                     |
|               | Evaluation     | passed                                                                      |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002643    | ETIM 7.0    | EC002643    |
| ETIM 8.0    | EC002643    | ETIM 9.0    | EC002643    |
| ECLASS 9.0  | 27-44-04-01 | ECLASS 9.1  | 27-44-04-01 |
| ECLASS 10.0 | 27-44-04-01 | ECLASS 11.0 | 27-46-01-01 |
| ECLASS 12.0 | 27-46-01-01 | ECLASS 13.0 | 27-46-01-01 |
| ECLASS 14.0 | 27-46-01-01 |             |             |

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | c2abd024-c370-41bc-90fc-5ba34b090103 |
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c                                   |

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## Important note

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IPC conformity | Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.                                                                                                                                                                                                                                                                                                                                     |
| Notes          | <ul style="list-style-type: none"> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>Wire end ferrule without plastic collar to DIN 46228/1</li> <li>Wire end ferrule with plastic collar to DIN 46228/4</li> <li>The data given under CSA relates to a cUL approval - E60693</li> <li>P on drawing = pitch</li> <li>Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.</li> <li>Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul> |

## Approvals

Approvals



|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate No. (cURus) | E60693     |

## Downloads

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Brochures                                   | <a href="#">FL DRIVES EN</a><br><a href="#">FL ANALO.SIGN.CONV. EN</a><br><a href="#">MB DEVICE MANUF. EN</a><br><a href="#">FL DRIVES DE</a><br><a href="#">FL BUILDING SAFETY EN</a><br><a href="#">FL APPL LED LIGHTING EN</a><br><a href="#">FL INDUSTR.CONTROLS EN</a><br><a href="#">FL MACHINE SAFETY EN</a><br><a href="#">FL HEATING ELECTR EN</a><br><a href="#">FL APPL INVERTER EN</a><br><a href="#">FL BASE STATION EN</a><br><a href="#">FL ELEVATOR EN</a><br><a href="#">FL POWER SUPPLY EN</a><br><a href="#">FL 72H SAMPLE SER EN</a><br><a href="#">PO OMNIMATE EN</a><br><a href="#">PO OMNIMATE EN</a> |

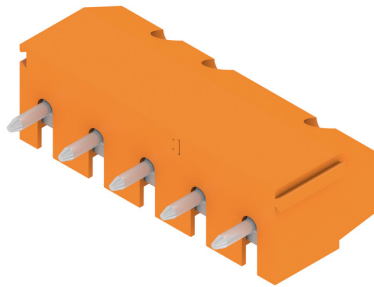
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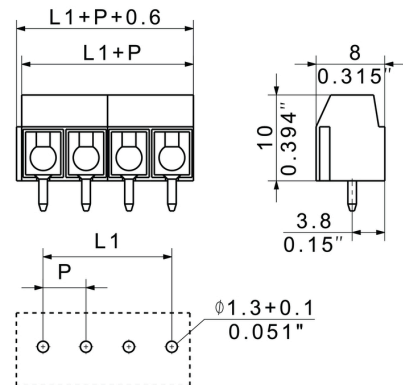
[www.weidmueller.com](http://www.weidmueller.com)

# Drawings

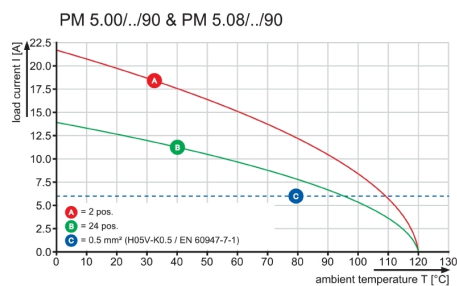
## Product image



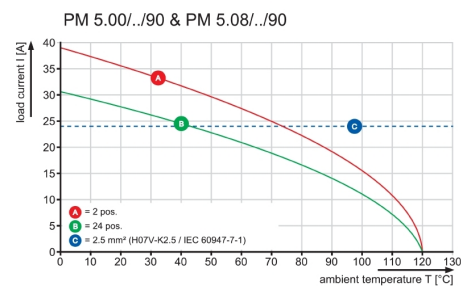
## Dimensional drawing



## Graph



## Graph





**PM 5.00/05/90 3.5SN OR BX****Weidmüller Interface GmbH & Co. KG**

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Slotted screwdriver**

Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

**General ordering data**

|            |                            |                          |
|------------|----------------------------|--------------------------|
| Type       | SDS 0.6X3.5X100            | Version                  |
| Order No.  | <a href="#">9008330000</a> | Screwdriver, Screwdriver |
| GTIN (EAN) | 4032248056286              |                          |
| Qty.       | 1 pc(s).                   |                          |

**Crosshead screwdriver Phillips**

Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip

**General ordering data**

|            |                            |                                                           |
|------------|----------------------------|-----------------------------------------------------------|
| Type       | SDK PH0 X 60               | Version                                                   |
| Order No.  | <a href="#">2749400000</a> | Screwdriver, Blade width (B): 60 mm, Blade thickness (A): |
| GTIN (EAN) | 4050118895629              |                                                           |
| Qty.       | 1 pc(s).                   |                                                           |

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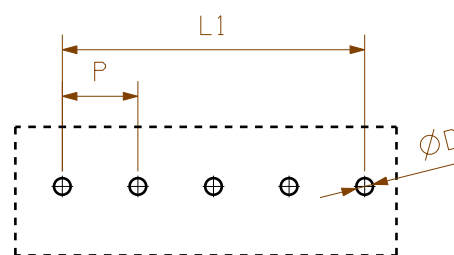
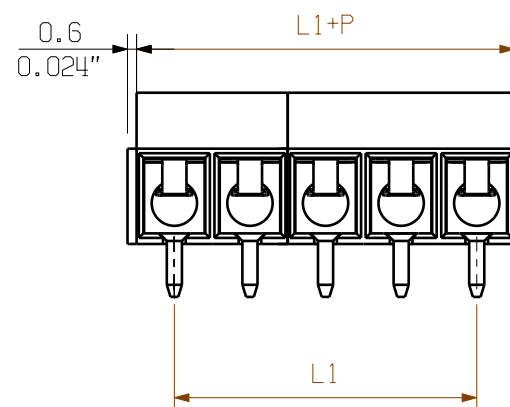
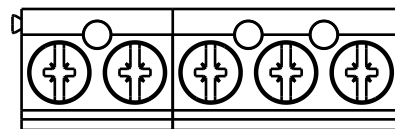
Germany

[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Slotted screwdriver**

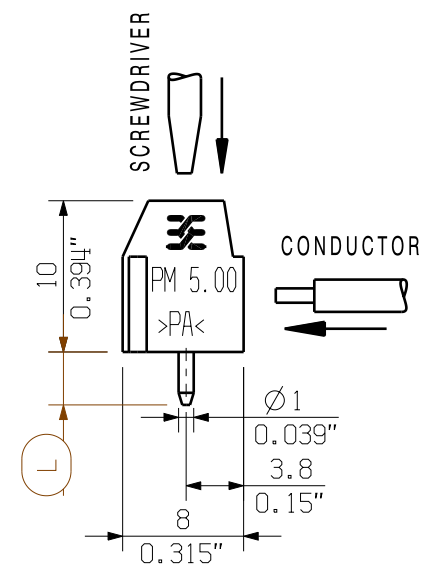
VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1.  
SoftFinish grip

**General ordering data**

|            |                            |                          |
|------------|----------------------------|--------------------------|
| Type       | SDIS 0.6X3.5X100           | Version                  |
| Order No.  | <a href="#">9008390000</a> | Screwdriver, Screwdriver |
| GTIN (EAN) | 4032248056354              |                          |
| Qty.       | 1 pc(s).                   |                          |



## PCB LAYOUT


$$L = 3.5 \pm 0.2$$

P = 5.00

$$L1 = (N-1) \times P$$

## KUNDENZEICHNUNG CUSTOMER DRAWING

|    |         |           |
|----|---------|-----------|
| 14 | 65.00   | 2.559     |
| 13 | 60.00   | 2.362     |
| 12 | 55.00   | 2.165     |
| 11 | 50.00   | 1.969     |
| 10 | 45.00   | 1.772     |
| 9  | 40.00   | 1.575     |
| 8  | 35.00   | 1.378     |
| 7  | 30.00   | 1.181     |
| 6  | 25.00   | 0.984     |
| 5  | 20.00   | 0.787     |
| 4  | 15.00   | 0.591     |
| 3  | 10.00   | 0.394     |
| 2  | 5.00    | 0.197     |
| N  | L1 [mm] | L1 [inch] |

For the mounting of PCBs, it should be noted that the rated data stated in the catalog relates only to the PCB components alone.

The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.

The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application. Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

GENERAL TOLERANCE:  
DIN ISO 2768-m



Max. nos.

91688/5  
20.01.17 MA J

### Modification

Date \_\_\_\_\_

**Weidmüller** 

Cat.no.: .

**C 41698**

Drawing no.

Issue no.

Sheet 01 of 01 sheets



|       |            |      |
|-------|------------|------|
| Drawn | 12.03.2005 | HE_J |
|-------|------------|------|

|             |      |
|-------------|------|
| Responsible | MA_J |
|-------------|------|

Scale: 5/1

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| Approved |  | XU_S |
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Product file: PM 5.00

7062

**PM 5.00/.../90 ...**  
LEITERPLATTENKLEMME  
PCB TERMINAL

## Recommended wave soldering profiles

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
[www.weidmueller.com](http://www.weidmueller.com)

### Single Wave:



### Double Wave:



### Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.