

## System pitch 10.16 mm (0.400 inch) - SU/BU SU 10.16HP/02/90F 3.5AG BK BX

**Weidmüller Interface GmbH & Co. KG**  
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Single-row, high-current male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity and additional fixing in flange. 3.5 mm pin length is optimised for wave soldering, plug-in direction 90° to solder pins.

- 1000 V (IEC) / 600 V (UL)
- 76 A (IEC) / 54 A (UL)

### General ordering data

Material number	<a href="#">1813570000</a>
Short text for material	SU 10.16HP/02/90F 3.5AG BK BX
Article - short description	PCB plug-in connector, male header, Clip-on flange, Solder connection, 10.16 mm, No. of poles: 2, 90°, Solder pin length: 3.5 mm, silver-plated, black, Box
EAN	4032248297788
Qty.	50 pc(s).
Packaging	Box

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**Technical data**

**System parameters**

Fitted to PCB	Solder connection	Outgoing elbow	90°
Pitch in mm	10.16 mm	Pitch in inch	0.4 inch
No. of poles	2	Solder pin length	3.5 mm
Can be coded	Yes	No. of rows	1
Number of solder pins per pole	3	Diameter of solder eyelet	1.6 mm
Tolerance of the diameter of the solder eyelet	+ 0,1 mm	L1 in mm	10.16 mm
L1 in inch	0.4 inch	Insulation resistance	10 <sup>3</sup> Ω
Electric shock protection to DIN VDE 0470	IP20 plugged	Electric shock protection to DIN VDE 57 106	Safe from finger touch, plugged

**Material data**

Insulating material	PBT GF	Colour	black
Insulating material group	IIIa	Flammability class UL 94	V-0
CTI	≥ 600	Contact material	Copper alloy
Contact surface	silver-plated	Highest continuous operating temperature, min.	-25 °C
Highest continuous operating temperature, max.	120 °C	Max. relative humidity during storage	80 %

**DIN IEC rating data**

Rated current, min. No. of poles (Tu=20°C)	76 A	Rated current, no. of poles (Tu=40°C), min.	72 A
Rated voltage at overvoltage category/pollution degree III/3	690 V	Rated impulse withstand voltage for overvoltage class/pollution severity III/3	8 kV
Rated voltage for overvoltage class/pollution severity III/2	1,000 V	Rated impulse withstand voltage for overvoltage class/pollution severity III/2	8 kV
Rated voltage for overvoltage class/pollution severity II/2	1,000 V	Rated impulse withstand voltage for overvoltage class/pollution severity II/2	6 kV
Short-time withstand current resistance	3 x 1s mit 1000 A		

**CSA rating data**

Rated voltage (Use group B)	300 V	Rated current (use group B)	54 A
Rated voltage (Use group C)	300 V	Rated current (use group C)	54 A
Rated voltage (use group D)	600 V	Rated current (use group D)	5 A

**UL 1059 rating data**

Rated voltage (use group B)	300 V	Rated current (use group B)	54 A
Rated voltage (use group C)	300 V	Rated current (use group C)	54 A
Rated voltage (use group D)	600 V	Rated current (use group D)	5 A

**Approvals**

Approvals CURUS; GOSTME25; ROHS

**Classifications**

ETIM 3.0	EC001284	ETIM 4.0	EC002637
UNSPSC	30-21-18-10	eClass 4.1	27-26-07-01
eClass 5.1	27-26-07-04	eClass 6.0	27-26-07-04

## Datasheet

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## Technical data

### Notes

Notes

- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- The data given under CSA relates to a cUL approval - E60693
- P on drg. = pitch
- 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.

### Downloads

CAD Library (P-CAD Format - ASCII) [SU.LIA](#)

CAD Library (P-CAD Format - Standard) [SU.LIB](#)

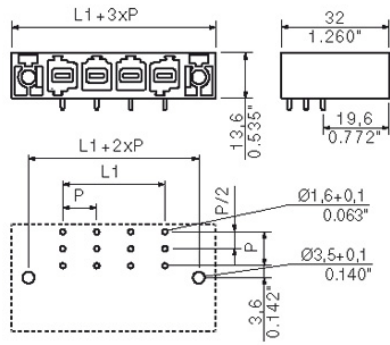
[3D model](#)

**Datasheet**

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**Drawings**



## System pitch 10.16 mm (0.400 inch) - SU/BU SU 10.16HP/02/90F 3.5AG BK BX

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## Mating connector (fully pluggable)

### BUZ 10.16HP/180F



High-performance female connector with the tried-and-tested, guaranteed zero-maintenance, Weidmüller steel clamping yoke. Side-by-side mounting without losing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections or wrong wiring, unique coding diversity, 4-point silver contact.

- 0.20 - 16 mm<sup>2</sup> (IEC) / 22 - 6 AWG (UL)
- 1000 V (IEC) / 600 V (UL)
- 69 A (IEC) / 54 A (UL)

#### General ordering data

Material number	Short text for material	Article - short description	EAN	Qty.	Packaging
<a href="#">1924620000</a>	BUZ 10.16HP/02/180F AG BK BX	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm <sup>2</sup> , Box	4032248564736	50 pc(s).	Box

### BUZ 10.16/180F



High-current female connector with the tried-and-tested, guaranteed zero-maintenance, Weidmüller steel clamping yoke. Side-by-side mounting without losing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections or wrong wiring, unique coding diversity, 4-point silver contact.

- 0.20 - 16 mm<sup>2</sup> (IEC) / 22 - 6 AWG (UL)
- 1000 V (IEC) / 600 V (UL)
- 69 A (IEC) / 54 A (UL)

#### General ordering data

Material number	Short text for material	Article - short description	EAN	Qty.	Packaging
<a href="#">1813890000</a>	BUZ 10.16/02/180F AG BK BX	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm <sup>2</sup> , Box	4032248298112	50 pc(s).	Box

**System pitch 10.16 mm (0.400 inch) - SU/BU  
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**Mating connector (conditionally pluggable)**
**BUZ 10.16HP/180SF**


High-performance female connector with the tried-and-tested, guaranteed zero-maintenance, Weidmüller steel clamping yoke. Side-by-side mounting without losing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections or wrong wiring, unique coding diversity, 4-point silver contact.

- 0.20 - 16 mm<sup>2</sup> (IEC) / 22 - 6 AWG (UL)
- 1000 V (IEC) / 600 V (UL)
- 69 A (IEC) / 54 A (UL)

**General ordering data**

Material number	Short text for material	Article - short description	EAN	Qty.	Packaging
<a href="#">1924700000</a>	BUZ 10.16HP/02/180SF AG BK BX	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm <sup>2</sup> , Box	4032248564859	50 pc(s).	Box

**BUZ 10.16/180SF**


High-current female connector with the tried-and-tested, guaranteed zero-maintenance, Weidmüller steel clamping yoke. Side-by-side mounting without losing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections or wrong wiring, unique coding diversity, 4-point silver contact.

- 0.20 - 16 mm<sup>2</sup> (IEC) / 22 - 6 AWG (UL)
- 1000 V (IEC) / 600 V (UL)
- 69 A (IEC) / 54 A (UL)

**General ordering data**

Material number	Short text for material	Article - short description	EAN	Qty.	Packaging
<a href="#">1850630000</a>	BUZ 10.16/02/180SF AG BK BX	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm <sup>2</sup> , Box	4032248381173	50 pc(s).	Box

## System pitch 10.16 mm (0.400 inch) - SU/BU SU 10.16HP/02/90F 3.5AG BK BX

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### Mating connector (conditionally pluggable)

#### BUZ 10.16HP/180



High-performance female connector with the tried-and-tested, guaranteed zero-maintenance, Weidmüller steel clamping yoke. Side-by-side mounting without losing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections or wrong wiring, unique coding diversity, 4-point silver contact.

- 0.20 - 16 mm<sup>2</sup> (IEC) / 22 - 6 AWG (UL)
- 1000 V (IEC) / 600 V (UL)
- 69 A (IEC) / 54 A (UL)

#### General ordering data

Material number	Short text for material	Article - short description	EAN	Qty.	Packaging
<a href="#">1924540000</a>	BUZ 10.16HP/02/180 AG BK BX	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm <sup>2</sup> , Box	4032248564057	50 pc(s).	Box

#### BUZ 10.16/180



High-current female connector with the tried-and-tested, guaranteed zero-maintenance, Weidmüller steel clamping yoke. Side-by-side mounting without losing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections or wrong wiring, unique coding diversity, 4-point silver contact.

- 0.20 - 16 mm<sup>2</sup> (IEC) / 22 - 6 AWG (UL)
- 1000 V (IEC) / 600 V (UL)
- 69 A (IEC) / 54 A (UL)

#### General ordering data

Material number	Short text for material	Article - short description	EAN	Qty.	Packaging
<a href="#">1813810000</a>	BUZ 10.16/02/180 AG BK BX	PCB plug-in connector, female plug, 10.16 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm <sup>2</sup> , Box	4032248298037	50 pc(s).	Box