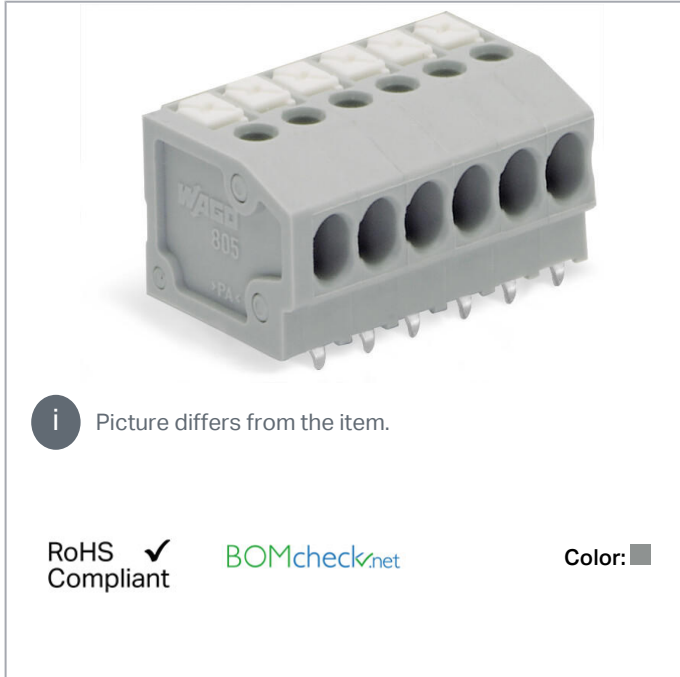# Data sheet | Item number: 805-158

PCB terminal block; push-button; 1.5 mm²; Pin spacing 3.5 mm; 8-pole; Push-in CAGE CLAMP®; with test port; 1,50 mm²; gray
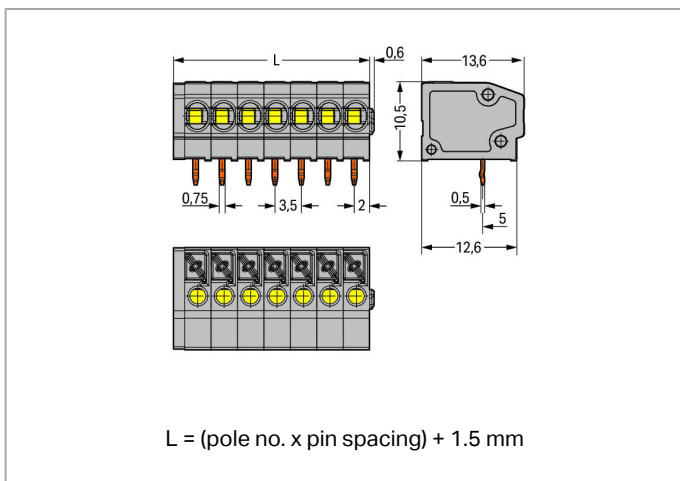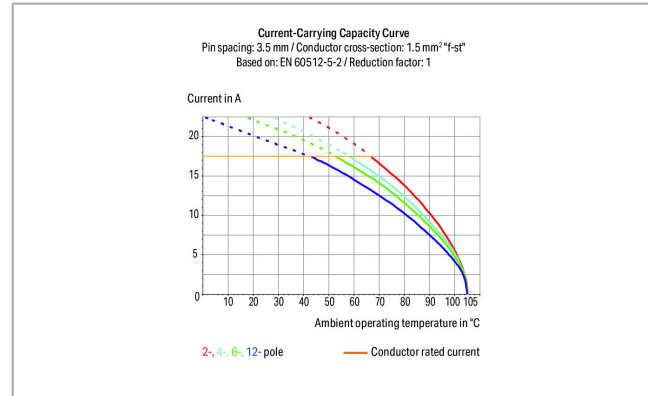
www.wago.com/805-158

i Picture differs from the item.

RoHS Compliant   BOMcheck.net   Color: ▪

Current-Carrying Capacity Curve
Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 1

2-, 4-, 6-, 12- pole   — Conductor rated current

L = (pole no. x pin spacing) + 1.5 mm

Item description

- PCB terminal strips with push-buttons and Push-in CAGE CLAMP® connection
- Push-in termination of solid and ferruled conductors
- Flush-mount push-buttons that close with minimal force for convenient termination/removal of fine-stranded conductors

Subject to changes. Please also observe the further product documentation!

Do you have any questions about our products?
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- Convenient, tool-free operation

- Versions with/without test slots and spacers

- Versions available with custom internal commoning (factory assembly), e.g., commoning ground conductor

Data
Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Nominal voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
Rated current	17.5 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group C)	150 V
Rated current UL (Use Group C)	10 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A

Ratings per CSA

Approvals per	CSA

Connection data

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-button
Solid conductor	0.2 … 1.5 mm² / 24 … 16 AWG
Fine-stranded conductor	0.2 … 1.5 mm² / 24 … 16 AWG
Fine-stranded conductor; with insulated ferrule	0.25 … 1 mm²

Subject to changes. Please also observe the further product documentation!

Fine-stranded conductor; with uninsulated ferrule	0.25 … 1 mm²
Strip length	9 … 10 mm / 0.35 … 0.39 inch
Conductor connection direction to PCB	0 °
Pole No.	8
Total number of connection points	8
Total number of potentials	8
Number of connection types	1
Number of levels	1
Number of test slots	1

Physical data

Pin spacing	3.5 mm / 0.138 inch
Width	29.5 mm / 1.161 inch
Height	13.7 mm / 0.539 inch
Height from the surface	10.5 mm / 0.413 inch
Depth	13.6 mm / 0.535 inch
Solder pin length	3.2 mm
Solder pin dimensions	0.5 x 0.75 mm
Drilled hole diameter with tolerance	$1.1^{(+0.1)}$ mm

PCB contact

PCB Contact	THT
Solder pin arrangement	over the entire terminal strip (in-line)
Number of solder pins per potential	1

Material data

Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Electrolytic copper (E_{Cu})
Contact plating	tin-plated
Weight	3.7 g

Subject to changes. Please also observe the further product documentation!

Environmental requirements

Limit temperature range	-60 … +105 °C

Commercial data

Packaging type	BOX
Country of origin	PL
GTIN	4055143659895
Customs tariff number	85369010000

Approvals / Certificates

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UR Underwriters Laboratories Inc.	UL 1059	E45172, sec. 6

Downloads
Documentation

Additional Information

Technical explanations	3. 4. 2019	pdf 2.0 MB	Download

CAD/CAE-Data

PCB Design

Symbol and Footprint 805-158		URL	Download

CAx data for your PCB design, consisting of "schematic symbols and PCB footprints",
allow easy integration of the WAGO component into your development environment.

Supported formats:

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark

Subject to changes. Please also observe the further product documentation!

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

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CAE data

ZUKEN Portal 805-158	URL	Download

CAD data

2D/3D Models 805-158	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 805-158	URL	Download

PCB terminal block; push-button; 1.5 mm²; Pin spacing 3.5 mm; 8-pole; Push-in CAGE
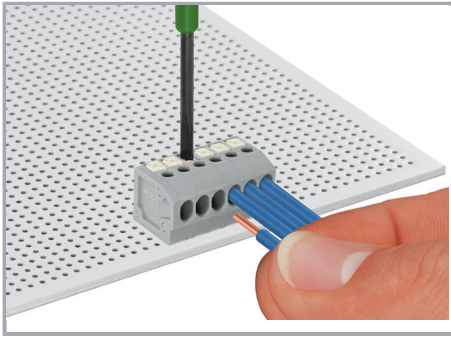CLAMP®; with test port; 1,50 mm²; gray

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Installation Notes

Conductor termination

Subject to changes. Please also observe the further product documentation!

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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Inserting solid conductor via push-in termination.

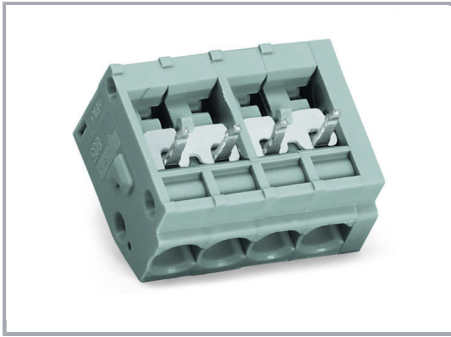Inserting and removing fine-stranded conductors via push-buttons.

Installation

Terminal strips with spacers and enlarged conductor entry (5 mm pin spacing) are available upon request.
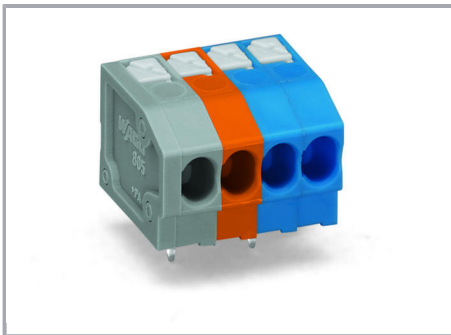
Commoning

Subject to changes. Please also observe the further product documentation!

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WAGO's 805 Series Terminal Strips provide "internal commoning" to meet requirements than ban routing the ground conductor over the board. This enables custom terminal strips to be commoned and marked at the factory upon request.

Installation

Mixed-color terminal strips are available upon request.

Subject to changes. Please also observe the further product documentation!

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