TRP 24-230VUC 1CO AGSNO ED2 PB

Product image

Similar to illustration

- 1 CO contact
- Contact material: AgSnO
- Unique multi-voltage input from 24 to 230 V UC
- Input voltages 24 V DC and 24 V UC with coloured marking: DC: blue, UC: white
- Version with lockable test button for manual switching

General ordering data

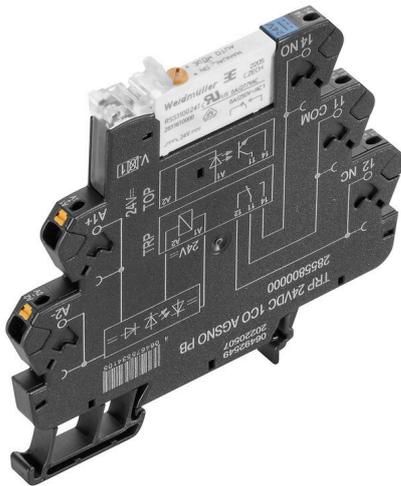|	
Version	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgSnO, Rated control voltage: 24... 230 V UC ±10 %, Continuous current: 6 A, PUSH IN, Test button available: Yes
Order No.	2855910000
Type	TRP 24-230VUC 1CO AGSNO ED2 PB
GTIN (EAN)	4064675534211
Qty.	10 items

Data sheet

TRP 24-230VUC 1CO AGSNO ED2 PB

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197

Dimensions and weights

Depth	87.8 mm	Depth (inches)	3.4567 inch
Height	89.4 mm	Height (inches)	3.5197 inch
Width	6.4 mm	Width (inches)	0.252 inch
Net weight	32.61 g		

Temperatures

Storage temperature	-40 °C...85 °C	Ambient temperature	-40 °C...60 °C
Operating temperature		Humidity	5-95% relative humidity, Tu = 40°C, without condensation

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	9e2cbc49-76d9-4611-b8ec-5b4f549a0aa9

Rated data UL

Ambient temperature (operational), max.	60 °C	Output current derating (ohmic)	6 A @ 50 °C, 5 A @ 60 °C
Connection cross-section AWG, min.	AWG 26	Connection cross-section AWG, max.	AWG 14
Type of conductor	rigid copper conductor, flexible copper conductor	Pollution severity level	2

Control side

Rated control voltage	24...230 V UC ±10 %	Rated current AC	19.0 mA @ 24 V AC, 3.0 mA @ 230 V AC
Rated current DC	11.0 mA @ 24 V DC, 1.1 mA @ 230 V DC	Power rating	265 mW @ 24 V DC, 255 mW @ 230 V DC, 455 mVA @ 24 V AC, 690 mVA @ 230 V AC
Status indicator	Green LED	Protective circuit	Rectifier
Coil voltage of the replacement relay deviating from the rated control voltage	Yes	Coil voltage of the replacement relay	24 V DC

Load side

Rated switching voltage	250 V AC	Continuous current	6 A
Max. switching frequency at rated load	0.1 Hz	Max. switching voltage, AC	250 V
Max. switching voltage, DC	250 V	Inrush current	30 A / 20 ms
AC switching capacity (resistive), max.	1500 VA	DC switching capacity (resistive), max.	144 W @ 24 V
Switch-on delay	≤ 40 ms	Switch-off delay	≤ 80 ms
Contact type	1 CO contact (AgSnO)	Mechanical service life	10 x 106 switching cycles

Creation date 10.03.2026 06:55:51 MEZ

TRP 24-230VUC 1CO AGSNO ED2 PB

Technical data

Min. switching power	100 mA @ 12 V

General data

Operating altitude	≤ 2000 m, above sea level	
Mounting rail	TS 35	
Test button available	Yes	
Version of test button	Lockable test button	
Mechanical switch position indicator	No	
Colour	black	
UL94 flammability rating component	Component	Housing
	UL94 flammability rating	V-0
	Component	Retaining clip
	UL94 flammability rating	V-0
	Component	Pusher
	UL94 flammability rating	V-0

Insulation coordination

Rated voltage	300 V	Pollution severity	2
Surge voltage category	III	Clearance and creepage distances for control side - load side	≥ 6 mm
Dielectric strength for control side - load side	3.51 kVeff /1 min.	Type of isolation at input and output	reinforced insulation
Dielectric strength of open contact	1 kVeff / 1 min	Dielectric strength to mounting rail	4 kVeff / 1 Min.
Impulse withstand voltage	6 kV (1.2/50 µs)	Protection degree	IP20

Further details of approvals / standards

Certificate no. (cULus)	E141197

Connection data

Wire connection method	PUSH IN	Stripping length, rated connection	9 mm
Clamping range, rated connection	1.5 mm²	Clamping range, min.	0.14 mm²
Clamping range, max.	2.5 mm²	Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 14	Wire cross-section, solid, min.	0.14 mm²
Wire cross-section, solid, max.	1.5 mm²	Wire cross-section, solid, min. (AWG)	AWG 26
Wire cross-section, solid, max. (AWG)	AWG 16	Wire connection cross section, finely stranded, min.	0.14 mm²
Wire connection cross section, finely stranded, max.	2.5 mm²	Wire cross-section, finely stranded, min. (AWG)	AWG 26
Wire cross-section, finely stranded, max. (AWG)	AWG 14	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.14 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.14 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm²	Blade size	0.4 x 2.0 mm

Classifications

ETIM 8.0	EC001437	ETIM 9.0	EC001437
ETIM 10.0	EC001437	ECLASS 14.0	27-37-16-01
ECLASS 15.0	27-37-16-01		

TRP 24-230VUC 1CO AGSNO ED2 PB

Drawings

Wiring diagram

Graph

DC load breaking capacity
Resistive load
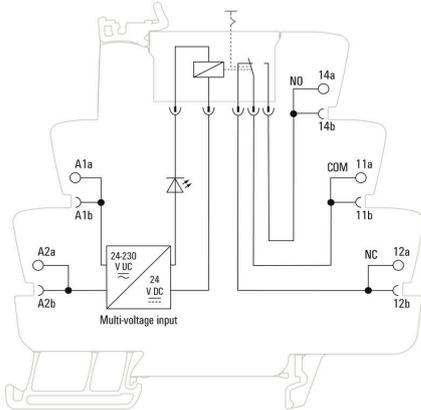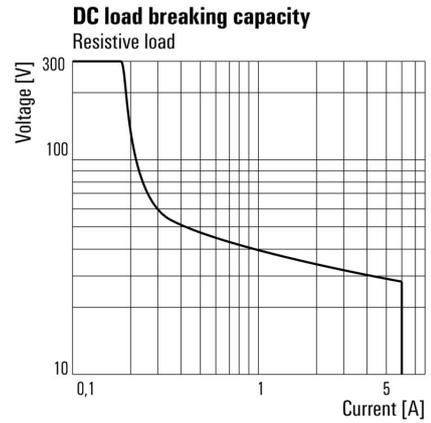
DC load limit curve Resistive load

Graph

Derating curve

Derating curve
dense packing
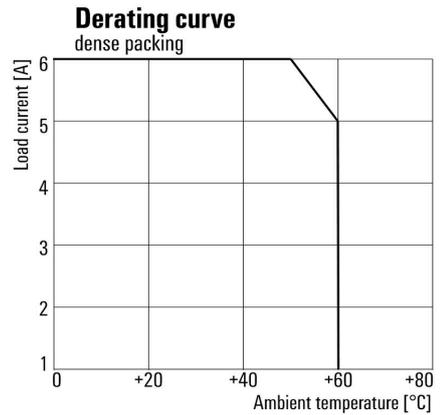
Electrical service life230 V AC
resistive load 230 V AC resistive load

TRP 24-230VUC 1CO AGSNO ED2 PB

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Drawings

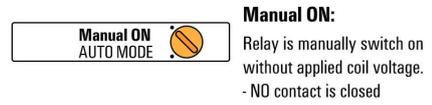### Dimensional drawing

6.4 mm

87.8 mm
80.8 mm

89.4 mm
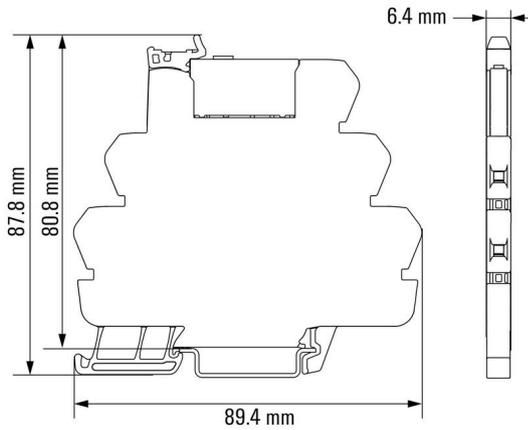
Miscellaneous

Function of test button

Mode is selected by rotating the orange switch.
The test button can be rotated endlessly.
The groove on the top shows the selected mode.

View from the top:

Manual ON
AUTO MODE

Auto Mode:
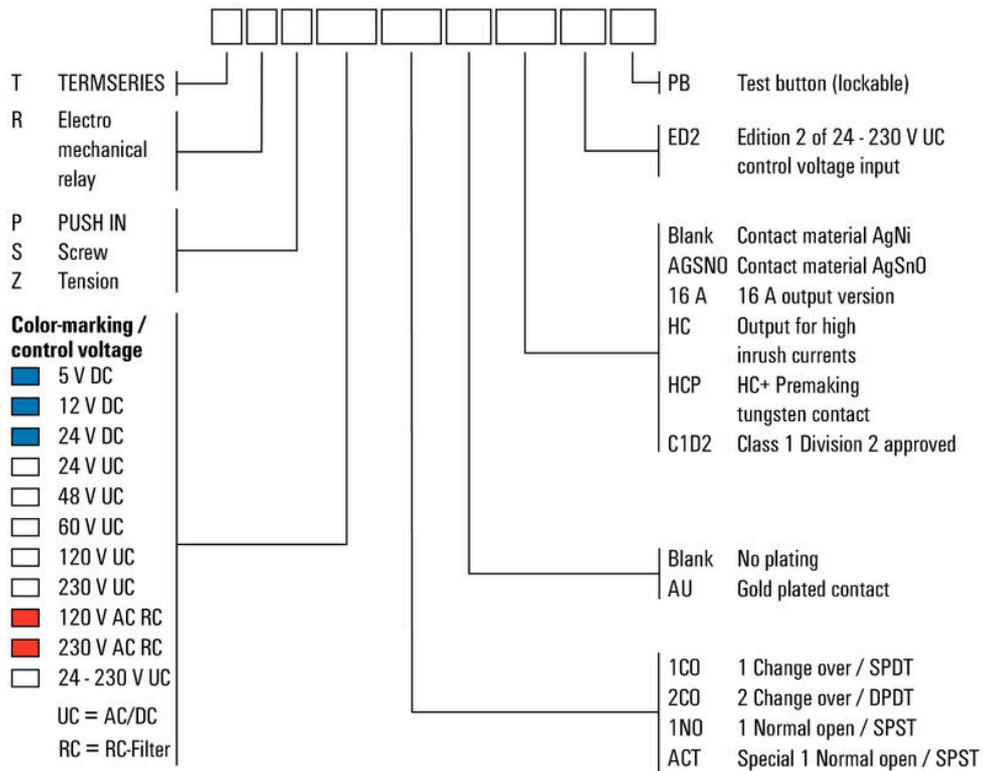Relay contact is controlled by the coil.

Manual ON
AUTO MODE

Manual ON:
Relay is manually switch on without applied coil voltage.
- NO contact is closed

Miscellaneous

Recommended screwdriver for test button

0.6 x 3.5 mm

TRP 24-230VUC 1CO AGSNO ED2 PB

Drawings
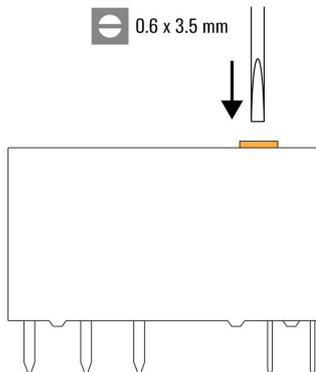
Miscellaneous

Type code TERMSERIES electromechanical relay versions

T	TERMSERIES
R	Electro mechanical relay
P	PUSH IN
S	Screw
Z	Tension

Color-marking / control voltage

	5 V DC
	12 V DC
	24 V DC
	24 V UC
	48 V UC
	60 V UC
	120 V UC
	230 V UC
	120 V AC RC
	230 V AC RC
	24 - 230 V UC

UC = AC/DC
RC = RC-Filter

| PB | Test button (lockable) |
| ED2 | Edition 2 of 24 - 230 V UC control voltage input |

Blank	Contact material AgNi
AGSNO	Contact material AgSnO
16 A	16 A output version
HC	Output for high inrush currents
HCP	HC+ Premaking tungsten contact
C1D2	Class 1 Division 2 approved

| Blank | No plating |
| AU | Gold plated contact |

1CO	1 Change over / SPDT
2CO	2 Change over / DPDT
1NO	1 Normal open / SPST
ACT	Special 1 Normal open / SPST

Sonstiges

TRP 24-230VUC 1CO AGSNO ED2 PB

Accessories

Partition plate

Versatile separation plates
Separation plates can be used to group together signals visually, to electrically
isolate modules and to insert markings for a better overview. This makes
them a particularly versatile accessory. Separation plates increase the
clearance and creepage distances between two modules, thus increasing
the rated insulation voltage between two modules to up to 600 V. Double
separation plates can be marked with WAD5 or WS10/5 markers and
enable continuous cross-connections. Installation is made easier with the
perforations to individually break out the cross-connection channels.

- Partition plates visually separates groups from each other
- Indentations for individual breaking out the crosscconnection channels
- Partition plates isolates between two modules by increasing the clearance and creepage distances of up to 600 V

General ordering data

Type	TW TXS/TXZ R3.2	Version
Order No.	1240800000	TERMSERIES, Partition plate
GTIN (EAN)	4050118028188	
Qty.	10 ST	

Supply module

Space-saving supply modules
Our supply terminals enable potentials to be fed at the input – e.g.
neutral or minus potentials – or switched potentials to be fed at the output. In
conjunction with precisely fitting cross-connections from the TEMRSERIES,
the connections for the cables on the relay module remain free for actuators
or sensors. No additional feed-through terminal blocks are required, resulting
in huge space savings in the panel. At the same time, the wiring is simplified
as no double wire-end ferrules are required for the potential feed.

General ordering data

Type	TXP SUPPLY	Version
Order No.	2618940000	TERMSERIES, Supply module, Number of contacts: 5, , Continuous
GTIN (EAN)	4050118667592	current: 10 A, PUSH IN
Qty.	10 ST	

Creation date 10.03.2026 06:55:51 MEZ

TRP 24-230VUC 1CO AGSNO ED2 PB

Accessories

Type	TXS SUPPLY	Version	
Order No.	1240780000	TERMSERIES, Supply module, Number of contacts: 5, , Continuous	
GTIN (EAN)	4050118028140	current: 10 A, Screw connection	
Qty.	10 ST		
Type	TXZ SUPPLY	Version	
Order No.	1240790000	TERMSERIES, Supply module, Number of contacts: 5, , Continuous	
GTIN (EAN)	4050118028164	current: 10 A, Tension-clamp connection	
Qty.	10 ST		

Blank
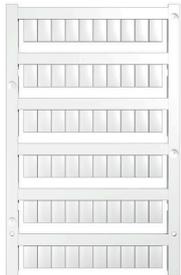
WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text.
WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.
• Can be fitted in strips or individually
• Markers in proven MultiCard format
For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	WS 10/6 M MC NE WS	Version	
Order No.	1818400000	WS, Terminal marker, 10 x 6 mm, Pitch in mm (P): 6.00 Weidmueller,	
GTIN (EAN)	4032248310876	Allen-Bradley, white	
Qty.	600 ST		

Cross-connections

Adjustable cross-connections
Increase the flexibility of your cross-connections. The TERMSERIES CROSS-CONNECTION (TCC) enables individually adjustable cross-connections with up to 51 poles. The maximum number of pluggable poles has been increased to 32 poles. The strip material can be shortened to the required length very easily. The cross-connectors convince thanks to their easy handling and visibility as well as their universal connection possibilities. An additional web prevents the spring from deforming during assembly.
• Individually adjustable cross-connection with 51 poles
• Additional bar to avoid deformation of the spring
• Increased cross-connection – up to 32 poles possible
• Vibration resistance

General ordering data

Type	TCC 6.4/51 RD	Version	
Order No.	2556410000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566925		
Qty.	10 ST		

Creation date 10.03.2026 06:55:51 MEZ

TRP 24-230VUC 1CO AGSNO ED2 PB

Accessories

Type	TCC 6.4/51 OR	Version	
Order No.	2556370000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566680		
Qty.	10 ST		
Type	TCC 6.4/51 BL	Version	
Order No.	2556450000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566963		
Qty.	10 ST		
Type	TCC 6.4/51 BK	Version	
Order No.	2556490000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118567007		
Qty.	10 ST		
Type	TCC 6.4/2 OR	Version	
Order No.	2556350000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566826		
Qty.	10 ST		
Type	TCC 6.4/2 BL	Version	
Order No.	2556430000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566949		
Qty.	10 ST		
Type	TCC 6.4/2 BK	Version	
Order No.	2556470000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566987		
Qty.	10 ST		
Type	TCC 6.4/10 RD	Version	
Order No.	2556400000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566918		
Qty.	10 ST		
Type	TCC 6.4/10 OR	Version	
Order No.	2556360000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566673		
Qty.	10 ST		
Type	TCC 6.4/10 BL	Version	
Order No.	2556440000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566956		
Qty.	10 ST		
Type	TCC 6.4/10 BK	Version	
Order No.	2556480000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566994		
Qty.	10 ST		
Type	TCC 12.8/26 RD	Version	
Order No.	2556420000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566932		
Qty.	10 ST		
Type	TCC 12.8/26 OR	Version	
Order No.	2556380000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566697		
Qty.	10 ST		
Type	TCC 12.8/26 BL	Version	
Order No.	2556460000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566970		
Qty.	10 ST		

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TRP 24-230VUC 1CO AGSNO ED2 PB

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Accessories

| Type	TCC 12.8/26 BK	Version	
Order No.	2556500000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118567014		
Qty.	10 ST		
Type	TCC 6.4/2 RD	Version	
Order No.	2556390000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566901		
Qty.	10 ST		

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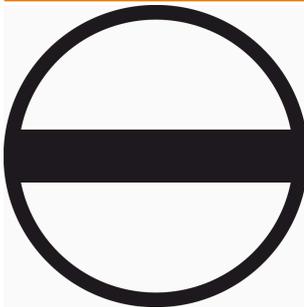
Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

Type	SDS 0.4X2.0X60	Version	
Order No.	2749260000	Screwdriver, Blade width (B): 2 mm, Blade length: 60 mm, Blade	
GTIN (EAN)	4050118895537	thickness (A): 0.4 mm	
Qty.	1 ST		
Type	SDIS 0.4X2.0X60	Version	
Order No.	2749780000	Screwdriver, Blade width (B): 2 mm, Blade length: 60 mm, Blade	
GTIN (EAN)	4050118896527	thickness (A): 0.4 mm	
Qty.	1 ST		

Interface adapters
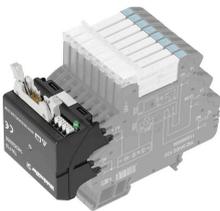
Faster signal wiring with less space
To reduce wiring times, pre-assembled cables are used between the control system and the interface level and are simply connected to the TERMSERIES adapter. This enables throughput times in electrical cabinet building to be significantly reduced. The adapter has a universal fit and offers a genuine space advantage in interaction with the TERMSERIES products with identical contours.

- Reduced wiring time due to plug-and-play concept with pre-assembled cables
- Can be applied to the input and output sides of the TERMSERIES
- Ready for plus and minus switching logic
- High space-saving due to universal fit to other TERMSERIES products

General ordering data

Type	TIA F10	Version	
Order No.	1463520000	TERMSERIES, Adapter, 10-pole plug according to DIN EN 60603-13,	
GTIN (EAN)	4050118323535	long locking lever, Number of signal paths: 8, Rated voltage DC : 24 V,	
Qty.	1 ST	Rated current (per signal path): 125 mA	

Creation date 10.03.2026 06:55:51 MEZ

TRP 24-230VUC 1CO AGSNO ED2 PB

Accessories

Type	TIA SUBD 15S	Version	
Order No.	1463530000	TERMSERIES, Adapter, Sub-D, 15-pole, DIN 41652 / IEC 60807,	
GTIN (EAN)	4050118323542	Number of signal paths: 8, Rated voltage DC : 24 V, Rated current (per	
Qty.	1 ST	signal path): 125 mA	
Type	TIAL F20	Version	
Order No.	1463550000	TERMSERIES, Adapter, 20-pole plug according to DIN EN 60603-13,	
GTIN (EAN)	4050118331783	long locking lever, Number of signal paths: 16, Rated voltage DC : 24	
Qty.	1 ST	V, Rated current (per signal path): 60 mA	
Type	TIAL F10	Version	
Order No.	1463540000	TERMSERIES, Adapter, 10-pole plug according to DIN EN 60603-13,	
GTIN (EAN)	4050118323559	long locking lever, Number of signal paths: 8, Rated voltage DC : 24 V,	
Qty.	1 ST	Rated current (per signal path): 125 mA	

WS 12/6

WS/ DEK
MultiMark terminal markers use an innovative composite material made from two components. The hard base contour of the marker snaps securely into the connector. The elastic surface finish makes the marker easy to mount. This specially punched material enables the strips to be stretched to accommodate the slight variations in spacing that tend to add up, especially with long terminal blocks. Another advantage: the excellent printability of the surface material guarantees durable and wear-resistant labelling. A print resolution of 300 dpi also produces a very legible script.
Your benefits with MultiMark
• Firm hold and durable printing
• Continuous strips save installation time
• Easy mounting thanks to an innovative composite material
• Large label field for optimal legibility
• High flexibility thanks to manufacturer independence

General ordering data

Type	WS 12/6 MM WS	Version
Order No.	2007200000	WS, Terminal marker, 12 x 6 mm, Weidmueller, white
GTIN (EAN)	4050118391886	
Qty.	600 ST	