

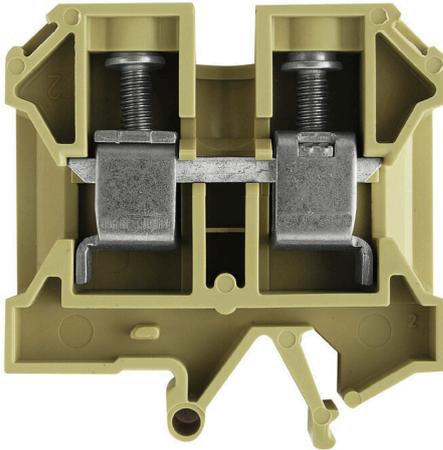
SAK 16**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

General ordering data

Version	Feed-through terminal block, Screw connection, beige / yellow, 16 mm ² , 76 A, 1000 V, Number of connections: 2
Order No.	0271060000
Type	SAK 16
GTIN (EAN)	4008190078324
Qty.	50 items

SAK 16

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. (UR)	E60693
Certificate No. (cURusEX)	E184763

Dimensions and weights

Depth	57.5 mm	Depth (inches)	2.2638 inch
Height	50 mm	Height (inches)	1.9685 inch
Width	12 mm	Width (inches)	0.4724 inch
Net weight	25.64 g		

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-50 °C...55 °C
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	100 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Material data

Basic material	PA 66	Colour	beige / yellow
UL 94 flammability rating	V-2		

Rating data IECEX/ATEX

Certificate No. (ATEX)	TUEV18ATEX8207U	Certificate No. (IECEX)	IECEXTUR18.0017U
Max. voltage (ATEX)	690 V	Current (ATEX)	74.5 A
Wire cross section max. (ATEX)	16 mm ²	Max. voltage (IECEX)	690 V
Current (IECEX)	74.5 A	Wire cross section max. (IECEX)	16 mm ²
Marking EN 60079-7	Ex eb II C Gb	Ex 2014/34/EU label	II 2 G D

System specifications

Version	Screw connection, for screwable cross-connection, One end without connector	End cover plate required	Yes
Number of potentials	1	Number of levels	1
Number of clamping points per level	2	Number of potentials per tier	1
Levels cross-connected internally	No	PE connection	No
Mounting rail	TS 32	N-function	No
PE function	No	PEN function	No

SAK 16

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Additional technical data

Open sides	right	Number of similar terminals	1
Explosion-tested version	No	Type of mounting	Snap-on

CSA rating data

Wire cross section max. (CSA)	4 AWG	Voltage size C (CSA)	600 V
Current size C (CSA)	87 A	Certificate No. (CSA)	154685-1501714
Wire cross section min. (CSA)	14 AWG		

Conductors for clamping (additional connection)

Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max.	16 mm ²	Connection type, additional connection	Screw connection
---	--------------------	--	------------------

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	B6	Wire connection cross section AWG, max.	AWG 6
Connection direction	on side	Tightening torque, max.	2.64 Nm
Tightening torque, min.	2 Nm	Stripping length	15 mm
Type of connection	Screw connection	Number of connections	2
Clamping range, max.	16 mm ²	Clamping range, min.	2.5 mm ²
Clamping screw	M 4	Blade size	1.0 x 5.5 mm
Wire connection cross section AWG, min.	AWG 12	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	16 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	2.5 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	16 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	2.5 mm ²	Wire connection cross section, finely stranded, max.	16 mm ²
Wire connection cross section, finely stranded, min.	2.5 mm ²	Connection cross-section, stranded, max.	16 mm ²
Connection cross-section, stranded, min.	2.5 mm ²	Twin wire-end ferrules, max.	10 mm ²
Twin wire-end ferrules, min.	1.5 mm ²	Wire connection cross-section, solid core, max.	10 mm ²
Wire connection cross-section, solid core, min.	2.5 mm ²	Connection cross-section, finely stranded, min.	2.5 mm ²

General

Wire connection cross section AWG, max.	AWG 6	Wire connection cross section AWG, min.	AWG 12
Standards	IEC 60947-7-1	Mounting rail	TS 32

Rating data

Rated cross-section	16 mm ²	Rated voltage	1000 V
Rated DC voltage	1000 V	Nominal current	76 A
Current at maximum wires	76 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	0.42 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	2.43 W	Pollution severity	3

SAK 16**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Technical data****UL rating data**

Conductor size Factory wiring max. (UR)	4 AWG	Current size C (UR)	80 A
Voltage size C (UR)	600 V	Conductor size Factory wiring min. (UR)	12 AWG
Certificate No. (UR)	E60693	Conductor size Field wiring min. (UR)	12 AWG
Conductor size Field wiring max. (UR)	4 AWG		

Classifications

ETIM 8.0	EC000897	ETIM 9.0	EC000897
ETIM 10.0	EC000897	ECLASS 14.0	27-25-01-01
ECLASS 15.0	27-25-01-01		

SAK 16

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Accessories

Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

General ordering data

Type	Q 2 SAK16	Version
Order No.	0457500000	Cross-connector (terminal), when screwed in, grey, 76 A, Number of poles: 2, Pitch in mm (P): 6.00, Insulated: No, Width: 17.9 mm
GTIN (EAN)	4008190055349	
Qty.	50 ST	

Disconnect plugs



In contrast to the terminal blocks with integrated disconnect lever, our disconnect plugs can be completely detached or removed from the terminal block and the respective application and offer a flexible alternative solution to our standard disconnectors.

General ordering data

Type	Q 3 SAK16	Version
Order No.	0457600000	Cross-connector (terminal), when screwed in, grey, 76 A, Number of poles: 3, Pitch in mm (P): 6.00, Insulated: No, Width: 29.8 mm
GTIN (EAN)	4008190022280	
Qty.	50 ST	

Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

General ordering data

Type	Q 4 SAK16	Version
Order No.	0457700000	Cross-connector (terminal), when screwed in, grey, 76 A, Number of poles: 4, Pitch in mm (P): 6.00, Insulated: No, Width: 41.7 mm
GTIN (EAN)	4008190070823	
Qty.	50 ST	

SAK 16

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

Accessories

www.weidmueller.com

Disconnect plugs



In contrast to the terminal blocks with integrated disconnect lever, our disconnect plugs can be completely detached or removed from the terminal block and the respective application and offer a flexible alternative solution to our standard disconnectors.

General ordering data

Type	Q 10 SAK 16	Version
Order No.	0457800000	Cross-connector (terminal), when screwed in, grey, 76 A, Number of poles: 10, Pitch in mm (P): 6.00, Insulated: No, Width: 131.1 mm
GTIN (EAN)	4008190082512	
Qty.	20 ST	
Type	QL 2 SAK 16	Version
Order No.	0470700000	Cross-connector (terminal), when screwed in, grey, 76 A, Number of poles: 2, Pitch in mm (P): 6.00, Insulated: No, Width: 17.9 mm
GTIN (EAN)	4008190182618	
Qty.	50 ST	
Type	QL 3 SAK 16	Version
Order No.	0470800000	Cross-connector (terminal), when screwed in, grey, 76 A, Number of poles: 3, Pitch in mm (P): 6.00, Insulated: No, Width: 29.8 mm
GTIN (EAN)	4008190011574	
Qty.	50 ST	

Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

General ordering data

Type	QL 4 SAK 16	Version
Order No.	0470900000	Cross-connector (terminal), when screwed in, grey, 76 A, Number of poles: 4, Pitch in mm (P): 6.00, Insulated: No, Width: 41.7 mm
GTIN (EAN)	4008190112257	
Qty.	50 ST	

SAK 16

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

www.weidmueller.com

Accessories

Disconnect plugs



In contrast to the terminal blocks with integrated disconnect lever, our disconnect plugs can be completely detached or removed from the terminal block and the respective application and offer a flexible alternative solution to our standard disconnectors.

General ordering data

Type	QL 10 SAK 16	Version	
Order No.	0471000000	Cross-connector (terminal), when screwed in, grey, 76 A, Number of	
GTIN (EAN)	4008190150761	poles: 10, Pitch in mm (P): 6.00, Insulated: No, Width: 113.1 mm	
Qty.	20 ST		

End plates and partition plates



Partition plates and end plates are essential accessories for terminal blocks. Partition plates provide optical and electrical separation of different potentials and functional groups, increasing safety and ensuring a clear structure inside the control cabinet. End plates close the terminal block row on the sides, protect against contact with live parts, and ensure a clean, stable finish. Both components are precisely matched to the respective Weidmüller terminal block series, contributing to safe, compliant, and professional wiring.

General ordering data

Type	AP SAK 16	Version	
Order No.	0271160000	End plate for terminals, beige, Height: 50 mm, Width: 1.5 mm, V-2,	
GTIN (EAN)	4008190120429	PA 66, Snap-on: Yes	
Qty.	20 ST		
Type	AP SAK 16 BL	Version	
Order No.	0271180000	End plate for terminals, blue, Height: 50 mm, Width: 1.5 mm, V-2,	
GTIN (EAN)	4008190169800	Polyamide 66, Snap-on: Yes	
Qty.	20 ST		
Type	AP SAK35/TW SAK 16	Version	
Order No.	0303660000	End plate for terminals, beige, Height: 58 mm, Width: 1.5 mm, V-2,	
GTIN (EAN)	4008190110765	PA 66, Snap-on: Yes	
Qty.	10 ST		
Type	AP SAK35/TW SAK 16 BL	Version	
Order No.	0303680000	End plate for terminals, blue, Height: 58 mm, Width: 1.5 mm, V-2, PA	
GTIN (EAN)	4008190025199	66, Snap-on: Yes	
Qty.	10 ST		
Type	TSCH 1	Version	
Order No.	0319160000	Small partition (terminal), PA 66, beige, Continuous operating temp.,	
GTIN (EAN)	4008190097219	max.: 100 °C	
Qty.	100 ST		

SAK 16

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Accessories

Testadapter and testsockets



Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

General ordering data

Type	PS 4 F.STB 4	Version	
Order No.	0299600000	Test adapter (terminal), 230 V	
GTIN (EAN)	4008190074043		
Qty.	20 ST		

Mounting support



We offer a broad portfolio of mounting support for easy handling and supplementation of our products. From various tools to insulating sleeves and various screws, our components are matched to each other down to the last detail and thus facilitate assembly in compliance with the respective standards and protective regulations.

General ordering data

Type	BFSC M3X22 PA/RT	Version	
Order No.	0128900000	Mounting screw (Terminal), 3.00 mm, Polyamide 66, Depth: 4.8 mm, Width: 4.8 mm, Height: 22 mm	
GTIN (EAN)	4008190084158		
Qty.	100 ST		
Type	BFSC M3X25	Version	
Order No.	0292500000	Mounting screw (Terminal), 3.00 mm, Steel, Depth: 4.8 mm, Width: 4.8 mm, Height: 25 mm	
GTIN (EAN)	4008190177027		
Qty.	100 ST		

Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

SAK 16

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

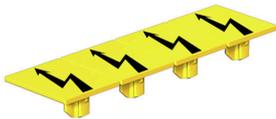
www.weidmueller.com

Accessories

General ordering data

Type	VH 19/5/3.4	Version
Order No.	0285100000	Connecting sleeve (terminal), when screwed in, Width: 5 mm, Height: 5 mm, Depth: 17.5, Number of poles: 1, Cu Zn
GTIN (EAN)	4008190189297	
Qty.	50 ST	
Type	VL 2 SAK 16/SAKA	Version
Order No.	0135800000	Cross-connector (terminal), when screwed in, grey, 57 A, Number of poles: 2, Pitch in mm (P): 12.00, Insulated: No, Width: 8 mm
GTIN (EAN)	4008190132088	
Qty.	50 ST	

Warning cover



Warning covers with a flash symbol provide more safety for man and machine. They are used where external voltage must be indicated within the application.

General ordering data

Type	AD 3 SAK 16	Version
Order No.	0297800000	Terminal cover, yellow, PVC, Height: 36 mm, Width: 36 mm, Depth: 1 mm, V-2
GTIN (EAN)	4008190080884	
Qty.	50 ST	

Custom printing



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
 - Strips for fast installation
 - Terminal markers, suitable for all Weidmüller cable connectors
 - Available as blank MultiCard or with standard printing
- 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	DEK 5/5 MC SDR	Version
Order No.	1609810000	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190456597	Weidmueller, To customer specification
Qty.	200 ST	

SAK 16

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

www.weidmueller.com

Accessories

Blank



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
 - Strips for fast installation
 - Terminal markers, suitable for all Weidmüller cable connectors
 - Available as blank MultiCard or with standard printing
- 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	DEK 5/5 MC NE WS	Version	
Order No.	1609801044	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00	
GTIN (EAN)	4008190397111	Weidmueller, white	
Qty.	1000 ST		

Custom printing



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
 - Strips for fast installation
 - Terminal markers, suitable for all Weidmüller cable connectors
 - Available as blank MultiCard or with standard printing
- 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	DEK 5/6 MC SDR	Version	
Order No.	1609830000	Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00	
GTIN (EAN)	4008190456603	Weidmueller, To customer specification	
Qty.	200 ST		

Blank



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
 - Strips for fast installation
 - Terminal markers, suitable for all Weidmüller cable connectors
 - Available as blank MultiCard or with standard printing
- 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	DEK 5/6 MC NE WS	Version
Order No.	1609820000	Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00
GTIN (EAN)	4008190203436	Weidmueller, white
Qty.	1000 ST	
Type	DEK 5/8 MC NE WS	Version
Order No.	1856740000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00
GTIN (EAN)	4032248400850	Weidmueller, white
Qty.	800 ST	

Custom printing



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
 - Strips for fast installation
 - Terminal markers, suitable for all Weidmüller cable connectors
 - Available as blank MultiCard or with standard printing
- 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	DEK 5/8 MC SDR	Version
Order No.	1856750000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00
GTIN (EAN)	4032248400867	Weidmueller, To customer specification
Qty.	160 ST	

SAK 16

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

www.weidmueller.com

Accessories

Plus



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
 - Strips for fast installation
 - Terminal markers, suitable for all Weidmüller cable connectors
 - Available as blank MultiCard or with standard printing
- 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	DEK 5/8 PLUS MC NE WS	Version
Order No.	1046350000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00
GTIN (EAN)	4032248782055	Weidmueller, white
Qty.	800 ST	

Custom printing



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
 - Strips for fast installation
 - Terminal markers, suitable for all Weidmüller cable connectors
 - Available as blank MultiCard or with standard printing
- 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	DEK 5/8 PLUS MC SDR	Version
Order No.	1046370000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00
GTIN (EAN)	4032248782079	Weidmueller, To customer specification
Qty.	160 ST	

SAK 16

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

Accessories

www.weidmueller.com

DEK 5/8



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	DEK 5/8 MM WS	Version	
Order No.	2007130000	Dekafix, Terminal marker, 5 x 8 mm, Weidmueller, white	
GTIN (EAN)	4050118392012		
Qty.	500 ST		

Marker holder



The marker holder offer the possibility of additional mounting of standard markers with a pitch of 5 or 5.1 mm. The angled holders can be optionally snapped together and could be mounted in all standard marking channels of the Klippon® Connect modular terminal blocks. Fitting marker types could be found under the respective accessories of the designation marking holder.

General ordering data

Type	BZT 1 WS 10/5	Version	
Order No.	1805490000	Accessories, Marker holder	
GTIN (EAN)	4032248270231		
Qty.	100 ST		
Type	BZT 1 ZA WS 10/5	Version	
Order No.	1805520000	Accessories, Marker holder	
GTIN (EAN)	4032248270248		
Qty.	100 ST		

SAK 16

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

Accessories

www.weidmueller.com

DEK 5/6



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	DEK 5/6 MM WS	Version	
Order No.	2007120000		Dekafix, Terminal marker, 5 x 6 mm, Weidmueller, white
GTIN (EAN)	4050118392104		
Qty.	600 ST		