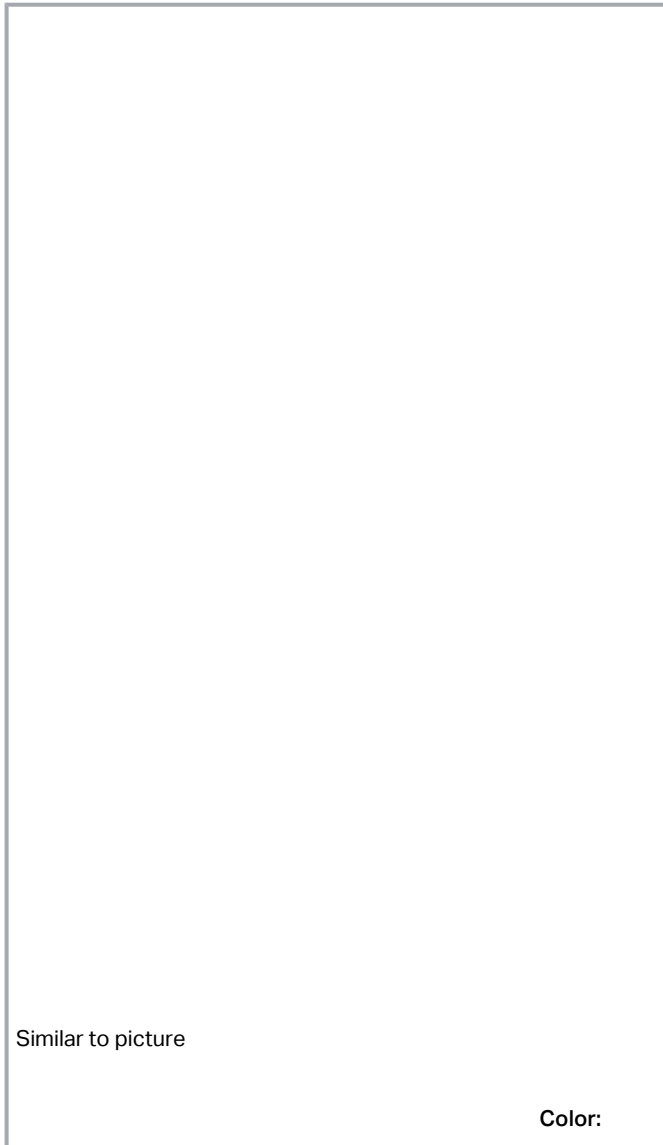


**Data sheet | Item number: 788-516**

Relay module; Nominal input voltage: 230 VAC; 2 changeover contacts;  
Limiting continuous current: 8 A; Red status indicator; Module width: 15 mm;  
2,50 mm<sup>2</sup>; gray

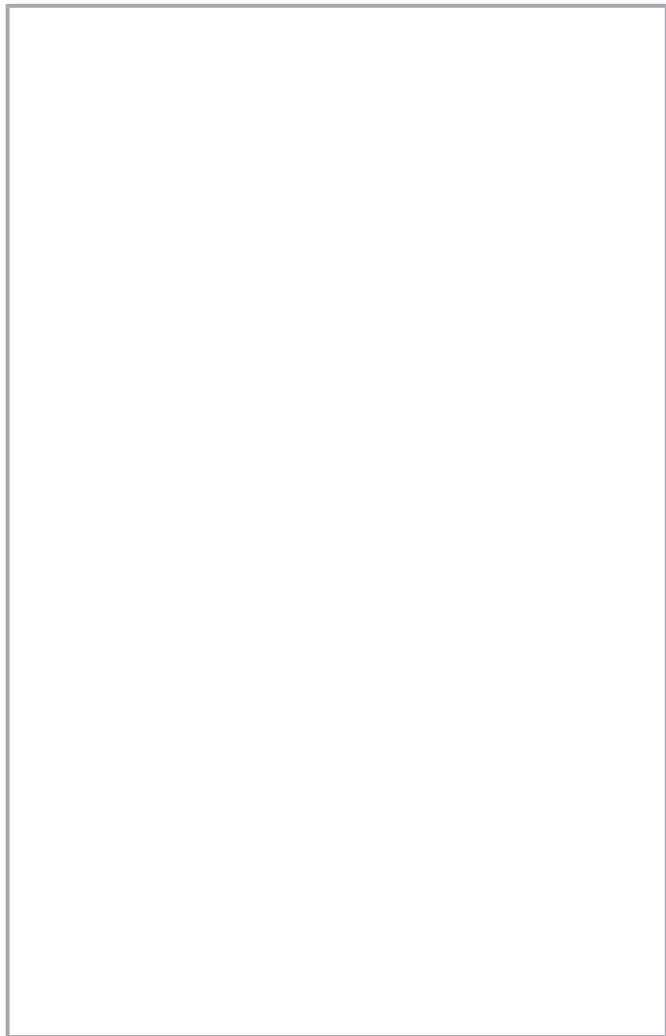
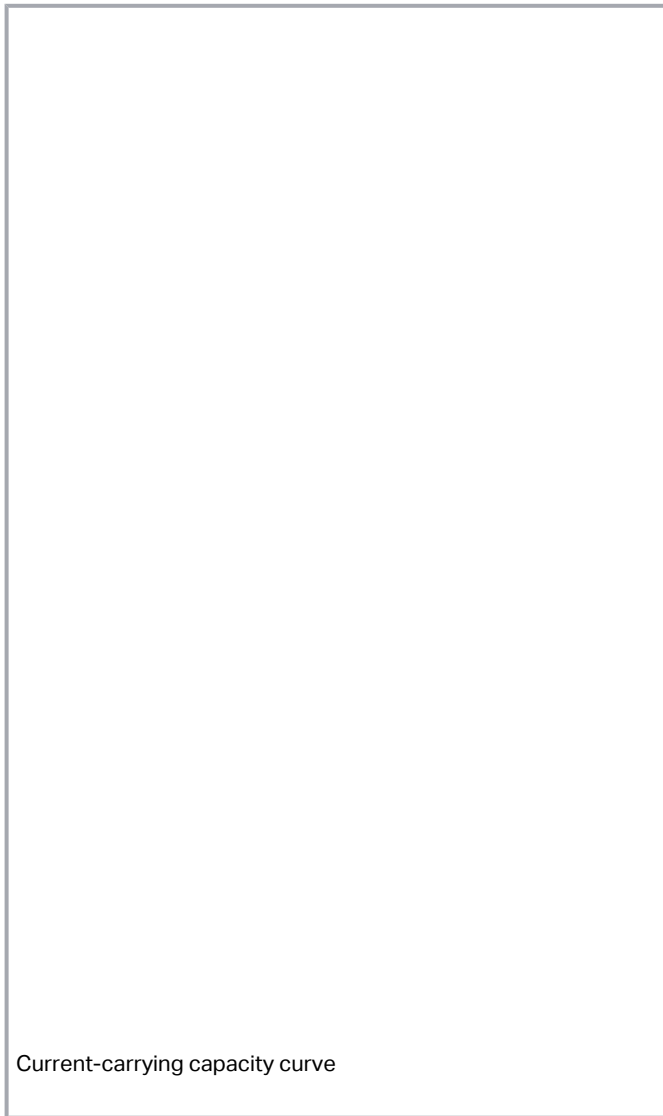
[www.wago.com/788-516](http://www.wago.com/788-516)



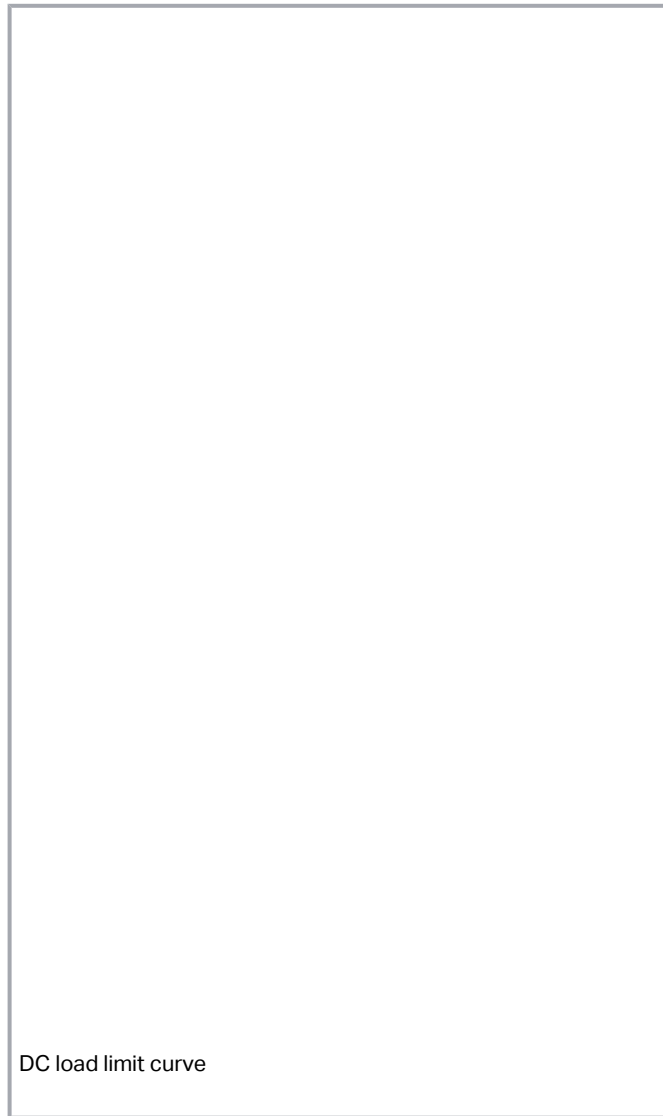
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## Data

### Notes

Safety information

A separator plate (e.g., 209-191) must be used for voltages greater than 250 V between adjacent relay modules and for compliance with the reinforced insulation requirements.

Note

- Reinforced insulation between coil and contacts
- To protect the relay coils and contacts, inductive loads must be dampened with an effective protection circuit.

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## Technical data

### Control Circuit

Nominal input voltage $U_N$	AC 230 V
Input voltage range	$\pm 10\%$
Nominal input current at $U_N$	4 mA

### Load circuit

Number of changeover/switchover contacts	2
Contact material (relay)	AgNi 90/10
Limiting continuous current	8 A
Inrush current (resistive) max.	(AC) 15 A / 4 s
Switching voltage (max.)	AC 250 V
Switching power (resistive) max.	AC 2000 VA; DC (see load limit curve)
Switching capacity	AC-15: 3 A / AC 250 V; DC-13: 2 A / DC 24 V
Recommended minimum load	12 V / 10 mA
Pull-in time (typ.)	10 ms
Drop-out time (typ.)	35 ms
Bounce time (typ.)	10 ms
Electrical life (NO; resistive load; 23 °C)	$10 \times 10^3$ switching operations
Mechanical life	$30 \times 10^6$ switching operations
Switching frequency with/without load (max.)	$6 \text{ min}^{-1}$ / $1200 \text{ min}^{-1}$

### Signaling

Status indicator	Red LED
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### Safety and protection

Rated voltage	250 V
Rated surge voltage	4 kV
Pollution degree	3
Dielectric strength (control/load circuit) (AC, 1 min)	5 kVrms
Dielectric strength (open contact) (AC, 1 min)	1 kVrms
Dielectric strength (load/load circuit) (AC, 1 min)	2.5 kVrms
Safety information	A separator plate (e.g., 209-191) must be used for voltages greater than 250 V between adjacent relay modules and for compliance with

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

the reinforced insulation requirements.

Protection type	IP20
-----------------	------

### Connection data

Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.34 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG
Fine-stranded conductor	0.34 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches

### Physical data

Width	15 mm / 0.591 inches
Height	86 mm / 3.386 inches
Depth from upper-edge of DIN-rail	54 mm / 2.126 inches

### Mechanical data

Mounting type	DIN-35 rail
---------------	-------------

### Material Data

Color	gray
Fire load	0.846 MJ
Weight	45.7 g

### Environmental requirements

Ambient temperature (operation at $U_N$ )	-40 ... +70 °C
Ambient temperature UL (operation at $U_N$ )	-40 ... +50 °C
Ambient temperature (storage)	-40 ... +70 °C
Processing temperature	-25 ... +50 °C
Temperature range of connection cable	$\geq (T_{\text{ambient}} + 20 \text{ K})$

### Standards and specifications

Standards/specifications	EN 61010-2-201 EN 61810-1 EN 61373 UL 508 DNV
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Subject to changes. Please also observe the further product documentation!



## Basic relay

WAGO Basic Relay	788-180
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## Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-37-16-01
eCl@ss 9.0	27-37-16-01
ETIM 8.0	EC001437
ETIM 7.0	EC001437
Recupel Type	
PU (SPU)	20 (1) pcs
Packaging type	box
Country of origin	CN
GTIN	4055143192378
Customs tariff number	85364900990

## Environmental Product Compliance

CAS-No.	7439-92-1 79-94-7 80-05-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol 4,4'-isopropylidenediphenol Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	7(a)
SCIP notification number (Austria)	b0e534fc-6e2a-476f-af3a-adc4f5ad784e
SCIP notification number (Belgium)	f5fb74a2-c3b0-40c0-98da-03976d135990
SCIP notification number (Bulgaria)	19a69d1f-1eac-4af1-a82f-60b7cd39e307
SCIP notification number (Czech Republic)	e9ac98ec-36be-424b-bf0a-c385a9fb437c
SCIP notification number (Denmark)	97398917-a0b9-438b-a009-ec705113136d
SCIP notification number (Finland)	6d5f6774-30bf-43ed-a808-bbc48db312c5
SCIP notification number (France)	33f68cdd-e88a-4b75-9ddb-b9542e5e979b
SCIP notification number (Germany)	e244a908-f765-40c7-b634-d9738f4d9568
SCIP notification number (Hungary)	62cbd900-173a-420f-aa49-b0385499542a
SCIP notification number (Italy)	30a343f2-20a6-4847-a57e-6c4f35c2ab5b
SCIP notification number (Netherlands)	a241131d-fb8e-47da-99b3-176d01cbd59d
SCIP notification number (Poland)	18110e8e-0396-4ae3-9bcd-6399915f98d2

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SCIP notification number (Romania)	4c1827a3-594e-47e5-93c0-87c8cd85c0df
SCIP notification number (Sweden)	a63b4428-d34d-484d-b9de-d06779aeb17

## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>EAC</b> Brjansker Zertifizierungsstelle	TP TC 004/2011	EAC RU C-DE.AM02.B.00122/19

### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-
	<b>UK-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>DNV</b> DNV Germany GmbH	DNV-CG-0339,Aug.2021	TAA00001D1
	<b>PRS</b> Polski Rejestr Statków	-	TE/2186/880590/18

## Optional accessories

### Tool

Operating tool	<b>Item no.: 210-720</b> Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured	<a href="http://www.wago.com/210-720">www.wago.com/210-720</a>
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### Basic Relay

Basic relay	<b>Item no.: 788-180</b> Basic relay; Nominal input voltage: 230 VAC; 2 changeover contacts; Limiting continuous current: 8 A; Module width: 13 mm; Module height: 15 mm	<a href="http://www.wago.com/788-180">www.wago.com/788-180</a>
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### Ferrule

Ferrule	<b>Item no.: 216-241</b>
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Subject to changes. Please also observe the further product documentation!



Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white [www.wago.com/216-241](http://www.wago.com/216-241)

**Item no.: 216-242**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray [www.wago.com/216-242](http://www.wago.com/216-242)

**Item no.: 216-243**

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red [www.wago.com/216-243](http://www.wago.com/216-243)

**Item no.: 216-244**

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black [www.wago.com/216-244](http://www.wago.com/216-244)

**Item no.: 216-542**

Twin ferrule; Sleeve for 2 x 1 mm<sup>2</sup> / AWG 2 x 18; red, insulated; 12 mm long; red [www.wago.com/216-542](http://www.wago.com/216-542)

**Jumpers**

## Jumper

**Item no.: 788-116**

Jumper; for jumper slot; 6-way; insulated; light gray [www.wago.com/788-116](http://www.wago.com/788-116)

**Item no.: 788-117**

Jumper; for jumper slot; 8-way; insulated; light gray [www.wago.com/788-117](http://www.wago.com/788-117)

**Item no.: 788-114**

Jumper; for jumper slot; 3-way; insulated; light gray [www.wago.com/788-114](http://www.wago.com/788-114)

**Item no.: 788-113**

Jumper; for jumper slot; 2-way; insulated; light gray [www.wago.com/788-113](http://www.wago.com/788-113)

**Item no.: 788-115**

Jumper; for jumper slot; 4-way; insulated; light gray [www.wago.com/788-115](http://www.wago.com/788-115)

**Item no.: 859-402**

Jumper; for jumper slot; 2-way; insulated; light gray [www.wago.com/859-402](http://www.wago.com/859-402)

**Item no.: 788-118**

Jumper; for jumper slot; 2-way; from 1 to 3; insulated; light gray [www.wago.com/788-118](http://www.wago.com/788-118)

**Marking accessories**

## Marking strip

**Item no.: 2009-110**

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white [www.wago.com/2009-110](http://www.wago.com/2009-110)

## Marking device

**Item no.: 210-110**

Fiber-tip pen [www.wago.com/210-110](http://www.wago.com/210-110)

## Double marker carrier

**Item no.: 209-128**

Adaptor; gray [www.wago.com/209-128](http://www.wago.com/209-128)

## Protective marker cover

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

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<b>Item no.: 209-184</b> Protection cover; transparent	<a href="http://www.wago.com/209-184">www.wago.com/209-184</a>
<b>Marker</b>	
<b>Item no.: 2009-115</b> WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	<a href="http://www.wago.com/2009-115">www.wago.com/2009-115</a>
<b>Item no.: 209-183</b> Marker; white	<a href="http://www.wago.com/209-183">www.wago.com/209-183</a>
<b>Item no.: 793-501</b> WMB marking card; as card; not stretchable; plain; snap-on type; white	<a href="http://www.wago.com/793-501">www.wago.com/793-501</a>
<b>Item no.: 793-502</b> WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/793-502">www.wago.com/793-502</a>
<b>Item no.: 793-503</b> WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/793-503">www.wago.com/793-503</a>
<b>Item no.: 793-504</b> WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/793-504">www.wago.com/793-504</a>
<b>Item no.: 793-505</b> WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/793-505">www.wago.com/793-505</a>
<b>Group marker carrier</b>	
<b>Item no.: 209-145</b> Group marker carrier; white	<a href="http://www.wago.com/209-145">www.wago.com/209-145</a>
<b>Item no.: 249-105</b> Group marker carrier; gray	<a href="http://www.wago.com/249-105">www.wago.com/249-105</a>
<b>Indicators</b>	
Status indication	
<b>Item no.: 788-125</b> Accessories for relay modules; Operation status indicator: red	<a href="http://www.wago.com/788-125">www.wago.com/788-125</a>
<b>Filter Module</b>	
Suppressor module	
<b>Item no.: 788-148</b> Filter module; RC filter element; Nominal voltage: 230 VAC	<a href="http://www.wago.com/788-148">www.wago.com/788-148</a>

## Downloads

### Documentation

#### Bid Text

788-516	2019 年2月19 日	xml	Download
X81 - Datei		4.7 kB	

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788-516 docx - Datei	2019 年1月25 日	docx 16.8 kB	Download
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#### Instruction Leaflet

Sockets with Elementary Relay/ SSR	V 1.0.1 2020 年10月9 日	pdf 2.3 MB	Download
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#### Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18 日	pdf 2.2 MB	Download
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#### CAD/CAE-Data

##### CAD data

2D/3D Models 788-516		URL	Download
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##### CAE data

EPLAN Data Portal 788-516		URL	Download
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WSCAD Universe 788-516		URL	Download
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ZUKEN Portal 788-516		URL	Download
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#### Environmental Product Compliance

##### Compliance Search

Environmental Product Compliance 788-516		URL	Download
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Relay module; Nominal input voltage: 230 VAC; 2 changeover contacts; Limiting continuous current: 8 A; Red status indicator; Module width: 15 mm; 2,50 mm<sup>2</sup>; gray

#### Installation Notes

##### Conductor termination

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



Conductor termination

### Commoning



Easy commoning using adjacent jumpers

### Marking



Marking using WMB Multi markers and group marker carriers.

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