



Color: ■ gray

Technical data		
Suitable		for end stops (249-116 and 249-117); for 9 WMB markers or 1 TOPJOB® S marking strip
Properties		Snap-on type and adjustable in height from 45 mm to 61 mm

Physical data		
Height		45 mm / 1.772 inches
Width		12.2 mm / 0.48 inches
Depth		46.2 mm / 1.819 inches

Material data		
Color		gray
Weight		2 g
Fire load		0.054 MJ

Environmental requirements					
Environmental Testing			Environmental Testing		
Test specification:	DIN EN 50155 (VDE 0115-200):2022-06		Monitoring of contact faults and interruptions	Passed	
Railway applications – Rolling stock – Electronic equipment			Voltage drop measurement before and after each axis	Passed	
Test procedure:	DIN EN 61373 (VDE 0115-0106):2011-04		Simulated service life test through increased levels of noise-like oscillations	Test passed according to Section 9 of the standard	
Railway applications – Rolling stock equipment – Vibration and shock tests			Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$	
Spectrum/Mounting location	Service life test, Category 1, Class A/B		Acceleration	0.572g (highest test level used for all axes)	
Functional test with noise-like oscillations	Test passed according to Section 8 of the standard		Test duration per axis	5 h	
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$		Test directions	X, Y and Z axes	
Acceleration	0.101g (highest test level used for all axes)		Extended testing: Monitoring of contact faults and interruptions	Passed	
Test duration per axis	10 min.		Extended testing: Voltage drop measurement before and after each axis	Passed	
Test directions	X, Y and Z axes				



Environmental Testing	
Shock test	Test passed according to Section 10 of the standard
Shock pulse form	Half sine
Acceleration	5g (highest test level used for all axes)
Shock duration	30 ms
Number of shocks (per axis)	3 pos. und 3 neg.
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Vibration and shock stress for rolling stock equipment	Passed

Commercial data	
Product Group	2 (Terminal Block Accessories)
PU (SPU)	50 (25) pcs
Packaging type	Box
Country of origin	DE
GTIN	4050821388937
Customs tariff number	39269097900

Product Classification	
UNSPSC	39121703
eCl@ss 10.0	27-14-40-75
eCl@ss 9.0	27-14-40-75
ETIM 9.0	EC002248
ETIM 10.0	EC002248
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates

Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
Railway WAGO GmbH & Co. KG	-	Railway Ready



Downloads

Environmental Product Compliance

Compliance Search			
Environmental Product Compliance 2009-163			

Documentation

Bid Text			
2009-163	04.01.2018	doc 24.00 KB	
2009-163	19.02.2019	xml 2.77 KB	

CAD/CAE-Data

CAD data		CAE data	
2D/3D Models 2009-163		EPLAN Data Portal 2009-163	
		WSCAD Universe 2009-163	
		ZUKEN Portal 2009-163	

1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 Marker



[Item No.: 793-5501/000-006](#)
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue



[Item No.: 793-5501/000-007](#)
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray



[Item No.: 793-5501/000-023](#)
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green



[Item No.: 793-5501/000-017](#)
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green



[Item No.: 793-5501/000-012](#)
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange



[Item No.: 793-5501/000-005](#)
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red



[Item No.: 793-501/000-024](#)
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet



[Item No.: 793-5501](#)
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white



[Item No.: 793-5501/000-002](#)
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



[Item No.: 793-501/000-006](#)
WMB marking card; as card; not stretchable; plain; snap-on type; blue



[Item No.: 793-501/000-007](#)
WMB marking card; as card; not stretchable; plain; snap-on type; gray



[Item No.: 793-501/000-023](#)
WMB marking card; as card; not stretchable; plain; snap-on type; green



[Item No.: 793-501/000-017](#)
WMB marking card; as card; not stretchable; plain; snap-on type; light green



[Item No.: 793-501/000-012](#)
WMB marking card; as card; not stretchable; plain; snap-on type; orange



[Item No.: 793-501/000-005](#)
WMB marking card; as card; not stretchable; plain; snap-on type; red



[Item No.: 793-501/000-024](#)
WMB marking card; as card; not stretchable; plain; snap-on type; violet

1.1.1.1 Marker



Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white

Item No.: 793-501/000-002
WMB marking card; as card; not stretchable; plain; snap-on type; yellow

Item No.: 2009-115/000-006
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

Item No.: 2009-115/000-007
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



Item No.: 2009-115/000-023
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

Item No.: 2009-115/000-017
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green

Item No.: 2009-115/000-012
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

Item No.: 2009-115/000-024
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet



Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 2009-115/000-002
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

1.1.1.2 Marking strip



Item No.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

Installation Notes

Marking



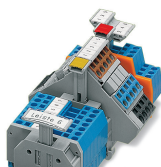
Group marker carrier (2009-163) for marking strips (2009-110)

Marking



Group marker carrier (2009-163) for marking strips (2009-110)

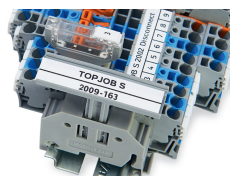
Installation



This system can be used as an additional group marker carrier or continuous marking strip carrier for terminal strips or single-deck rail-mount terminal blocks, e.g., for:

- DIN-35 rail-mount terminal strips (264 Series)
- Single-deck rail-mount terminal blocks (279 to 284 Series) with a maximum height of 49 mm (1.93 inch) from upper edge of DIN-rail (observe conductor radius)Receptacles for:
 - 1 x marker
 - 2 x WMB Multi marker or
 - 3 x WCB Combi marker or
 - 1 x WFB continuous marking strip

Marking



Height-adjustable group marker carrier (2009-163) for WMB markers or marking strips (2009-110)