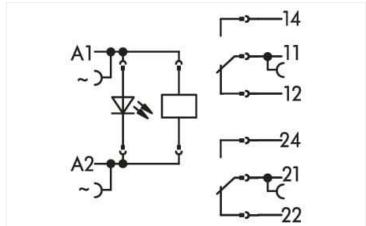
Relay module; Nominal input voltage: 230 VAC; 2 changeover contacts; Limiting continuous current: 8 A; with gold contacts; Red status indicator; Module width: 15 mm; 2,50 mm²; gray

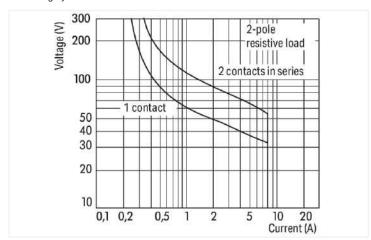


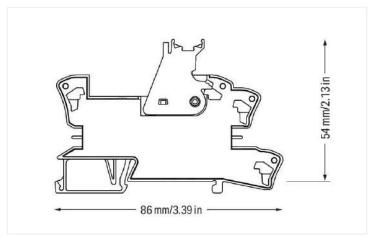
https://www.wago.com/788-616



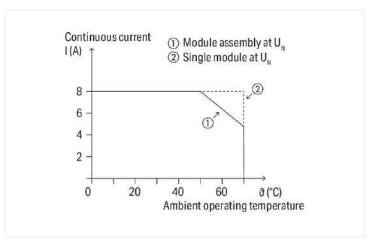


Color: gray





DC load limit curve



Current-carrying capacity curve

Dimensions in mm

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Notes

Safety information

Note

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.

- Reinforced insulation between coil and contacts
- To prevent damaging the gold layer, 30 VDC switching voltages and 50 mA currents must not be exceeded. Higher switching power eventually evaporates the gold layer. The resulting deposits in the housing may reduce service life.
- To protect the relay coils and contacts, inductive loads must be dampened with an effective protection circuit.

Technical data			
Control circuit		Load circuit	
Nominal input voltage U_N	AC 230 V	Number of changeover/switchover contacts	2
Input voltage range	±10 %		
Nominal input current at U _N	5 mA	Contact material (relay)	AgNi + Au
		Limiting continuous current	8 A
		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	5 V / 2 mA / 50 mW
		Pull-in time (typ.)	7 ms
		Drop-out time (typ.)	3 ms
		Electrical life (NO; resistive load; 23 °C)	100 x 10 ³ switching operations
		Mechanical life	30 x 10 ⁶ switching operations

Signaling

Status indicator Red LED

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 the reinforced insulation requirements.
Protection type	IP20

Connection data	
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.34 2.5 mm² / 22 14 AWG
Fine-stranded conductor	0.34 2.5 mm² / 22 14 AWG
Strip length	9 10 mm / 0.35 0.39 inches

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Physical data

Width15 mm / 0.591 inchesHeight86 mm / 3.386 inchesDepth from upper-edge of DIN-rail54 mm / 2.126 inches

Mechanical data

Mounting type DIN-35 rail

Material data

ColorgrayFire load0.843 MJWeight45.5 g

Environmental requirements

Ambient temperature (operation at U_N)

Ambient temperature UL (operation at U_N)

Ambient temperature (storage)

Ambient temperature (storage)

-40 ... +50 °C

-40 ... +70 °C

Standards and specifications

Standards/specifications EN 61010-2-201 EN 61810-1

EN 61810-1 EN 61373 UL 508 DNV

Basic relay

WAGO Basic Relay 788-181

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 PU (SPU) 20 (1) pcs Packaging type Box Country of origin DE **GTIN** 4045454484804 Customs tariff number 85364900990

https://www.wago.com/788-616



Environmental Product Compliance

RoHS Compliance Status Compliant,No Exemption

Approvals / Certificates

General approvals

FAL

Approval Standard Certificate Name

EAC TP TC 004/2011 EAC RU C-DE.AM02.
Brjansker Zertifizierungsstelle B.00122/19

Declarations of conformity and manufacturer's declarations

ApprovalStandardCertificate NameEU-Declaration of Confor---

mity

WAGO GmbH & Co. KG

Approvals for marine applications





Approval	Standard	Certificate Name
DNV DNV Germany GmbH	DNV-CG-0339,Aug.2021	TAA00001D1
PRS Polski Rejestr Statków	-	TE/2186/880590/18

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 788-616 \downarrow

Documentation

Bid Text			
788-616	19.02.2019	xml 4.94 KB	$\underline{\downarrow}$
788-616	25.01.2019	docx 16.64 KB	$\underline{\downarrow}$

Instruction Leaflet

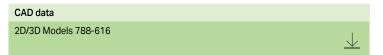
 Sockets with Elementa V 1.0.1
 pdf

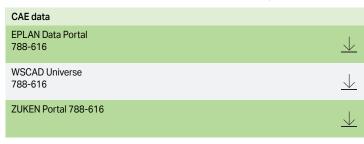
 ry Relay/ SSR
 09.10.2020
 2271.22 KB

CAD/CAE-Data

https://www.wago.com/788-616







1 Compatible Products

1.1 Optional Accessories

1.1.1 Basic relay

1.1.1.1 Basic relay



Item No.: 788-181

Basic relay; Nominal input voltage: 230 VAC; 2 changeover contacts; Limiting continuous current: 8 A; with gold contacts; Module width: 13 mm; Module height: 15

1.1.2 Ferrule

1.1.2.1 Ferrule





Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white

Item No.: 216-242

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

Item No.: 216-243

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Item No.: 216-244

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-542

Twin ferrule; Sleeve for 2 x 1 mm² / AWG 2 x 18; red, insulated; 12 mm long; red

1.1.3 Filter module

1.1.3.1 Suppressor module



Item No.: 788-148

Filter module; RC filter element; Nominal voltage: 230 VAC

1.1.4 Indicators

https://www.wago.com/788-616



1.1.4.1 Status indication



Item No.: 788-125

Accessories for relay modules; Operation status indicator: red

1.1.5 Jumper

1.1.5.1 Jumper



Jumper; for jumper slot; 2-way; from 1 to 3; insulated; light gray

Item No.: 788-113

Jumper; for jumper slot; 2-way; insulated; light gray

Item No.: 859-402

Jumper; for jumper slot; 2-way; insulated; light gray

Item No.: 788-114

Jumper; for jumper slot; 3-way; insulated; light gray

Item No.: 788-115

Jumper; for jumper slot; 4-way; insulated; light gray

Item No.: 788-116

Jumper; for jumper slot; 6-way; insulated; light gray

Item No.: 788-117

Jumper; for jumper slot; 8-way; insulated; light gray

1.1.6 Marking

1.1.6.1 Double marker carrier



Item No.: 209-128

Adaptor; gray

1.1.6.2 Group marker carrier



Item No.: 249-105

Group marker carrier; gray

.

<u>Item No.: 209-145</u> Group marker carrier; white

1.1.6.3 Marker



Item No.: 209-183 Marker; white Item No.: 793-502

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white

Item No.: 793-503

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white Item No.: 793-504

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white



WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white

Item No.: 793-501

WMB marking card; as card; not stretchable; plain; snap-on type; white

Item No.: 2009-115

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

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1.1.6.4 Marking devices



Item No.: 210-110 Fiber-tip pen

1.1.6.5 Marking strip

Item No.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.1.6.6 Protective marker cover

<u>Item No.: 209-184</u>

Protection cover; transparent

1.1.7 Tool

1.1.7.1 Operating tool



Item No.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Installation Notes

Conductor termination



Conductor termination

Commoning



Easy commoning using adjacent jumpers

https://www.wago.com/788-616



Marking



Marking using WMB Multi markers and group marker carriers.

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$