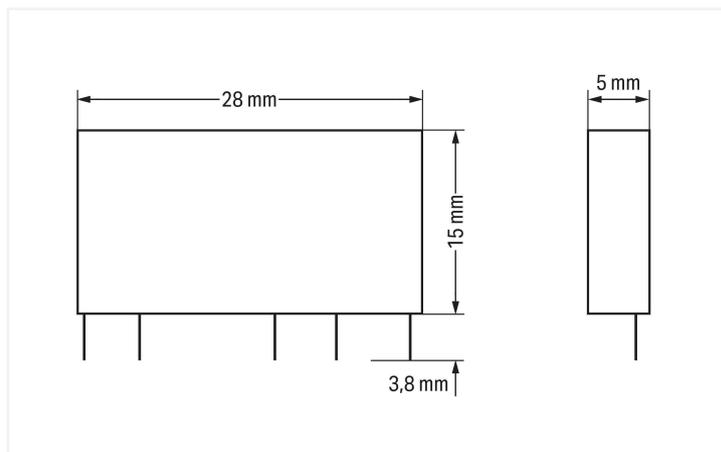


## Data Sheet | Item Number: 857-167

Basic solid-state relay; Nominal input voltage: 24 VDC; Output voltage range: 24 ... 240 VAC; Limiting continuous current: 2 A

<https://www.wago.com/857-167>



### Notes

Note

Optocouplers and solid state relays are designed for use in signal processing networks that are not supplied directly by the low-voltage power supply network.

### Technical data

#### Control circuit

Nominal input voltage $U_N$	24 VDC
Input voltage range (low level)	0 ... 10 VDC
Input voltage range (high level)	20 ... 28.8 VDC
Nominal input current at $U_N$	7 mA

#### Load circuit

Circuit type	2-wire connection Zero-voltage switching
Limiting continuous current	2 A
Nominal output voltage	230 VAC
Output voltage range	24 ... 240 VAC
Voltage drop	$\leq 1.6$ VAC
Leakage current at rated voltage	$\leq 1.5$ mA
Switching current (min.)	22 mA
Turn-on time	$\leq 10$ ms
Turn-off time	$\leq 10$ ms
Switching frequency	50 Hz / 60 Hz

### Safety and protection

Dielectric strength (control/load circuit) (AC, 1 min)	3.75 kVrms
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### Physical data

Width	5 mm / 0.197 inches
Height from the surface	15 mm / 0.591 inches
Depth	28 mm / 1.102 inches

### Mechanical data

Mounting type	Pluggable module
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### Material data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0 MJ
Weight	3.5 g

### Environmental requirements

Ambient temperature (operation at $U_N$ )	-30 ... +80 °C
Ambient temperature (storage)	-40 ... +100 °C
Relative humidity	5 ... 95 % (no condensation permissible)
Operating altitude (max.)	2000 m

### Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	20 pcs
Packaging type	Box
Country of origin	IT
GTIN	4045454997656
Customs tariff number	85365005000

### Product Classification

UNSPSC	39122334
eCl@ss 10.0	27-26-15-03
eCl@ss 9.0	27-26-15-03
ETIM 9.0	EC001504
ETIM 8.0	EC001504
ECCN	NO US CLASSIFICATION

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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### Approvals / Certificates

#### General approvals



Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc.	UL 508	E340707

## Downloads

### Environmental Product Compliance

Compliance Search			
Environmental Product Compliance 857-167			↓

## Documentation

Bid Text			
857-167	19.02.2019	xml 3.41 KB	↓
857-167	29.11.2018	doc 26.00 KB	↓

## CAD/CAE-Data

CAD data	
2D/3D Models 857-167	↓

CAE data	
EPLAN Data Portal 857-167	↓
WSCAD Universe 857-167	↓

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Socket

##### 1.1.1.1 Socket without relay



**Item No.: 857-104**  
 Relay socket; Nominal input voltage: 24 V AC/DC; for 5 mm basic relays; Yellow status indicator

## Installation Notes

### Installation



Removing a relay via ejector.