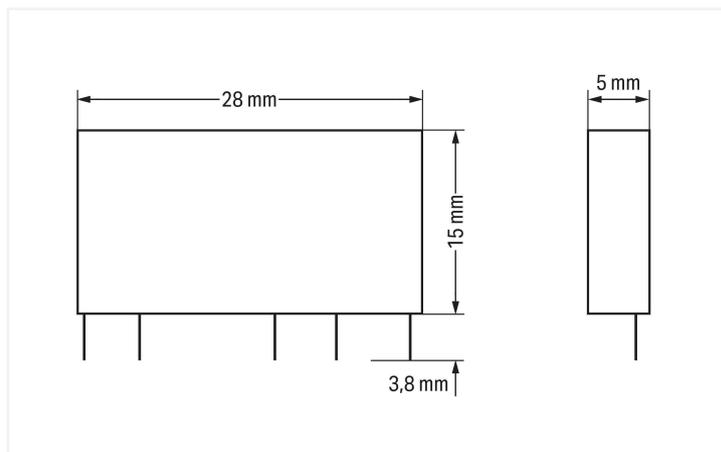


## Data Sheet | Item Number: 857-161

Basic solid-state relay; Nominal input voltage: 24 VDC; Output voltage range: 0 ... 30 VDC; Limiting continuous current: 3 A

<https://www.wago.com/857-161>



### 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)	18.8 ... 31.2 VDC
Nominal input current at $U_N$	7 mA

#### Load circuit

Circuit type	2-wire connection
Limiting continuous current	3 A
Inrush current (resistive) max.	(AC) 15 A / 0.01 s
Nominal output voltage	24 VDC
Output voltage range	0 ... 30 VDC
Voltage drop	$\leq 0.12$ VDC
Leakage current at rated voltage	$\leq 1$ $\mu$ A
Switching current (min.)	50 $\mu$ A
Turn-on time	$\leq 100$ $\mu$ s
Turn-off time	$\leq 600$ $\mu$ s
Switching frequency	$\leq 350$ 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	4.9 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	DE
GTIN	4045454997632
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 857-161



## Documentation

### Bid Text

857-161	19.02.2019	xml 3.35 KB	
857-161	29.11.2018	doc 26.00 KB	

## CAD/CAE-Data

### CAD data

2D/3D Models 857-161



### CAE data

EPLAN Data Portal 857-161



WSCAD Universe 857-161



ZUKEN Portal 857-161



## 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.

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

Current addresses can be found at: [www.wago.com](http://www.wago.com)