

## Data sheet | Item number: 857-181

Basic solid-state relay; Nominal input voltage: 24 VDC; Output voltage range:  
0 ... 24 VDC

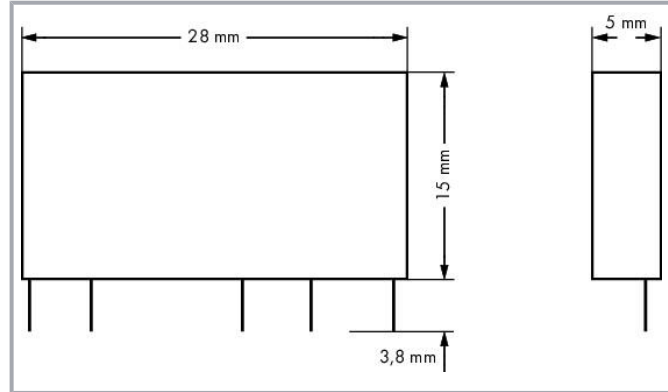


[www.wago.com/857-181](http://www.wago.com/857-181)



 Picture differs from the item.

Similar to picture



## Data

### Notes

Note

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

## Technical data

### Control Circuit

Nominal input voltage $U_N$	DC 24 V (SELV)
Input voltage range (low level)	DC 0 ... 4 V
Input voltage range (high level)	DC 16.8 ... 30 V
	7 mA

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

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Nominal input current at  $U_N$

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### Load circuit

Circuit type	2-wire connection
Limiting continuous current	8 A
Nominal output voltage	DC 24 V (SELV)
Output voltage range	DC 1 ... 30 V
Voltage drop at output (max.)	$\leq$ DC 0.8 V
Leakage current at rated voltage	$\leq$ 1 $\mu$ A
Switching current (min.)	10 mA
Turn-on time	$\leq$ 60 $\mu$ s
Turn-off time	$\leq$ 250 $\mu$ s
Switching frequency	$\leq$ 500 Hz

### Safety and protection

Dielectric strength (control/load circuit) (AC, 1 min)	3.51 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

Weight	3.6 g
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### 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

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

## Commercial data


ETIM 8.0	EC001437
ETIM 7.0	EC001437
PU (SPU)	20 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143724319
Customs tariff number	85365005000

## Environmental Product Compliance

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

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 508	E340707

## Optional accessories

### Sockets

Socket without relay		
	<b>Item no.: 857-104</b> Relay socket; Nominal input voltage: 24 V AC/DC; for 5 mm basic relays; Yellow status indicator	<a href="http://www.wago.com/857-104">www.wago.com/857-104</a>

## Downloads

### CAD/CAE-Data

#### CAE data

EPLAN Data Portal 857-181	URL	Download

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

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 857-181

URL

Download

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## Installation Notes

### Installation



Removing a relay via ejector.

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