

## Data sheet | Item number: 857-164

Basic solid-state relay; Nominal input voltage: 24 VDC; Output voltage range:  
0 ... 48 VDC

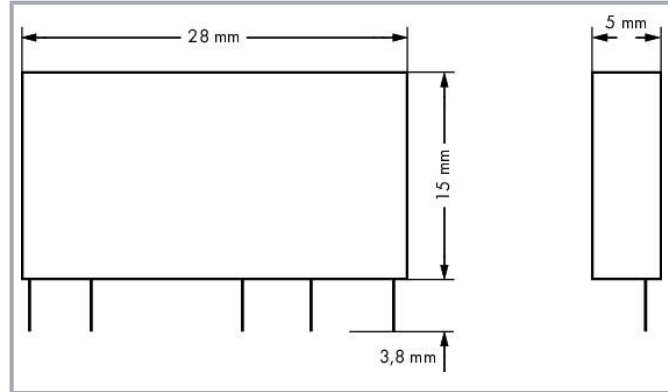


[www.wago.com/857-164](http://www.wago.com/857-164)



 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
Input voltage range (low level)	DC 0 ... 10 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	0.1 A
Nominal output voltage	DC 24 V
Output voltage range	DC 0 ... 48 V
Voltage drop at output (max.)	$\leq$ DC 1 V
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	$\leq$ 1 kHz

### 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

Weight	3.2 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

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## Commercial data


Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-26-15-03
eCl@ss 9.0	27-26-15-03
ETIM 8.0	EC001504
ETIM 7.0	EC001504
PU (SPU)	20 pcs
Packaging type	Box
Country of origin	QU
GTIN	4045454997670
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

### Documentation

### Bid Text

857-164

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X81 - Datei	2019 Feb 19	xml 3.5 kB	Download
857-164 doc - Datei	2018 Nov 29	doc 26.6 kB	Download

#### Additional Information

Disposal and Recycling	V 1.1.0	pdf	Download
Electrical and electronic equipment, Batteries, Packaging	2022 Aug 18	2.2 MB	

#### CAD/CAE-Data

##### CAE data

EPLAN Data Portal 857-164		URL	Download
WSCAD Universe 857-164		URL	Download

#### Environmental Product Compliance

##### Compliance Search

Environmental Product Compliance 857-164		URL	Download
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#### Installation Notes

##### Installation



Removing a relay via ejector.

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