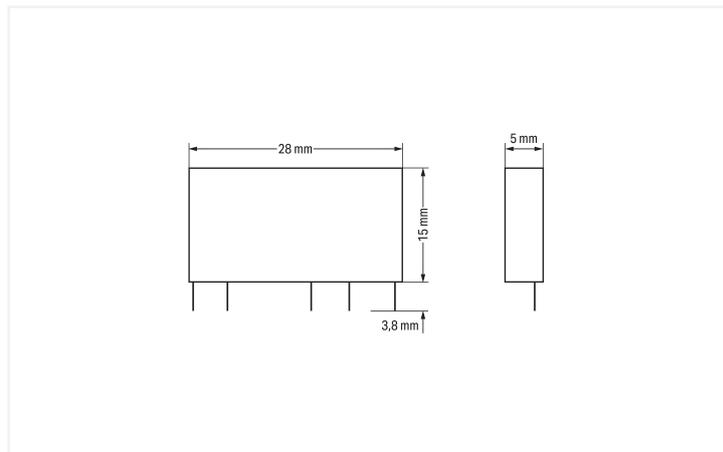


Data Sheet | Item Number: 857-181

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

<https://www.wago.com/857-181>



Similar to illustration

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 (SELV)
Input voltage range (low level)	0 ... 4 VDC
Input voltage range (high level)	16.8 ... 30 VDC
Nominal input current at U_N	7 mA

Load circuit

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

Safety and protection

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

3.51 kVrms

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)	Information on material specifications can be found here
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0 MJ
Weight	3.6 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

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

Product Classification

UNSPSC	39122330
ETIM 9.0	EC001437
ETIM 10.0	EC001437
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 857-181



CAD/CAE-Data

CAD data

2D/3D Models 857-181



CAE data

EPLAN Data Portal
857-181



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.