

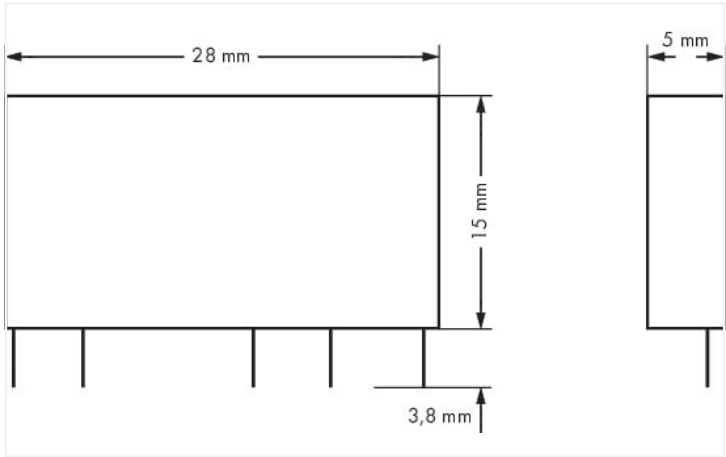
Data Sheet | Item Number: 857-181

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

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



Similar to illustration



Dimensions in mm

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		Load circuit	
Nominal input voltage U_N	DC 24 V (SELV)	Circuit type	2-wire connection
Input voltage range (low level)	DC 0 ... 4 V	Limiting continuous current	8 A
Input voltage range (high level)	DC 16.8 ... 30 V	Nominal output voltage	DC 24 V (SELV)
Nominal input current at U_N	7 mA	Output voltage range	DC 1 ... 30 V
		Voltage drop	≤ 0.8 VDC
		Leakage current at rated voltage	$\leq 1 \mu\text{A}$
		Switching current (min.)	10 mA
		Turn-on time	$\leq 60 \mu\text{s}$
		Turn-off time	$\leq 250 \mu\text{s}$
		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

Material data	
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	
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

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

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.