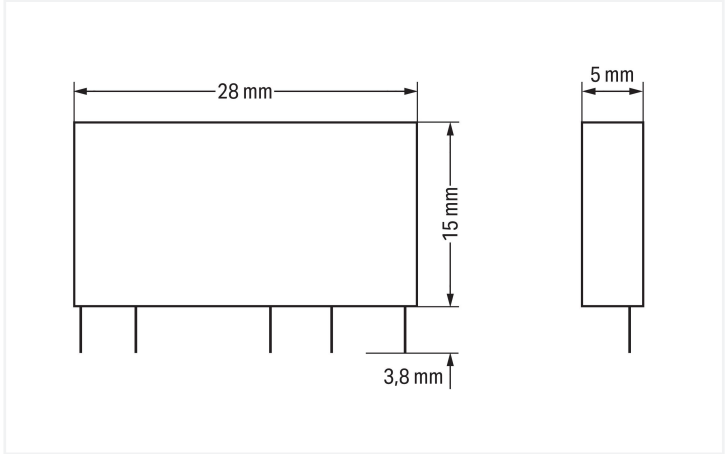


Data Sheet | Item Number: 857-161

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>



Dimensions in mm

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		Load circuit	
Nominal input voltage U_N	DC 24 V	Circuit type	2-wire connection
Input voltage range (low level)	DC 0 ... 10 V	Limiting continuous current	3 A
Input voltage range (high level)	DC 18.8 ... 31.2 V	Inrush current (resistive) max.	(AC) 15 A / 0.01 s
Nominal input current at U_N	7 mA	Nominal output voltage	DC 24 V
		Output voltage range	DC 0 ... 30 V
		Voltage drop	≤ 0.12 VDC
		Leakage current at rated voltage	$\leq 1 \mu\text{A}$
		Switching current (min.)	50 μA
		Turn-on time	$\leq 100 \mu\text{s}$
		Turn-off time	$\leq 600 \mu\text{s}$
		Switching frequency	≤ 350 Hz

Safety and protection	
Dielectric strength (control/load circuit) (AC, 1 min)	3.75 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	
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	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)
eCl@ss 10.0	27-26-15-03
eCl@ss 9.0	27-26-15-03
ETIM 9.0	EC001504
ETIM 8.0	EC001504
PU (SPU)	20 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454997632
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 857-161			

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