



Please read this document carefully before using this product. The guarantee will be invalidated if the device is damaged by not following instructions detailed in the manual. The company shall not be responsible for any damage or losses however caused, which may be experienced as a result of the installation or use of this product.

ENDA EPGD1- ESGD1 Panel Mounted DC Solid State Relays

Thank you for choosing **ENDA EPGD1 - ESGD1** Series Solid State Relays.

- * 40A DC Load Current.
- * 3-40V DC Load Voltage.
- * 7-30V DC Input Voltage.
- * LED Indicator for Input Voltage.
- * Varistor Protection for Peak Voltages.
- * Panel Mounted.
- * CE Marked According to European Norms.

ORDER CODE

EPGD1-440

Product Basic Code	
Panel Type	EP
Slim Panel Type	ES
Input Voltage	
7-30V DC	G
Load Voltage Type	
DC	D
Number of Pole	
Single	1

Load Current	
40A DC	40
Load Voltage	
40V DC	4



RoHS
Compliant

ENVIRONMENTAL CONDITIONS

Ambient/storage Temperature	-25... +60 °C / -30... +100 °C (Shouldn't be icing and condensation in ambient.)
Relative Humidity	90% Relative humidity for temperatures up to 20 °C, decreasing linearly to 50% at 40°C. (Shouldn't be condensation).
Altitude	Max. 1000m.
EMC	EN 61326-1: 2013
Protection Degree	IP20, According to EN60529 Standard



KEEP AWAY device from exposed to corrosive, volatile and flammable gases or liquids and DO NOT USE the device in similar hazardous locations.

OUTPUT

Order Code	EPGD1-440 / ESGD1-440
Load Voltage (V DC)	3-40
Load Current (A DC)	40
Minimum Working Current (mA DC)	1
Leakage Load Current (mA DC)	0,25
Non-repeating Surge Current / 25 °C (A DC)	230
Voltage Drop in Transmission (V DC)	1,6
Switching Frequency (Hz)	100

THERMAL SPECS

Order Code	EPGD1-440 / ESGD1-440
Tj Junction Temperature (°C)	≤175 / ≤175
Rth (j-c) junction-case thermal resistance (°C / W)	≤1,0 / ≤1,0

INPUTS

Order Code	EPGD1-440 / ESGD1-440
Input Voltage	7 - 30VDC
Transmission Voltage	≥7VDC
Cut-off Voltage	< 6VDC
Input Current	< 20mAdc
Transmission Time	5ms
Cut-off Time	5ms
LED Indicator	If the transmission voltage is >6VDC, the LED lights up.

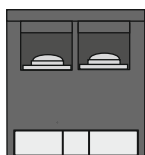
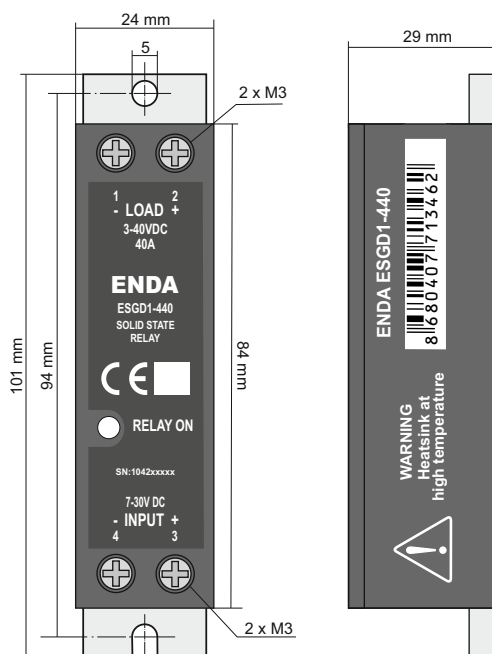
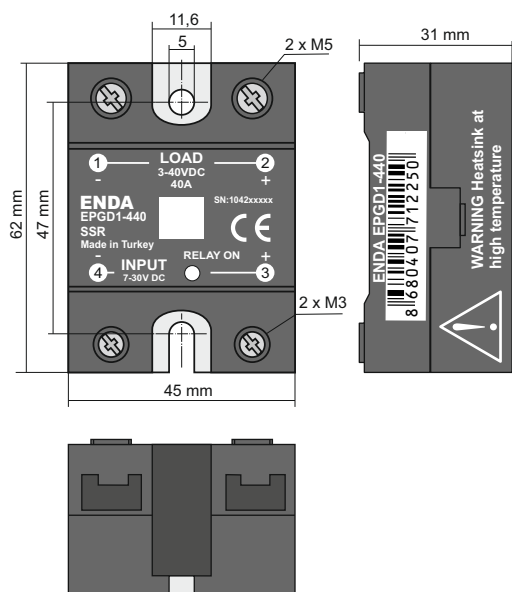
OVERALL

Order Code	EPGD1-440 / ESGD1-440
Sizes	W45xH62xD31mm / W24xH101xD29mm
Weight	95g
Insulation Voltage	2500 Vrms between I/O terminals for 1 min.
Connection	4mm² Cable can be used.
Terminal Screw Torque	Max. 1,2Nm.
Mounting	Mounted to panels with M4 type screws.
Enclosure Material	Self extinguishing plastics (According to EN 60695-11-10 V-O)

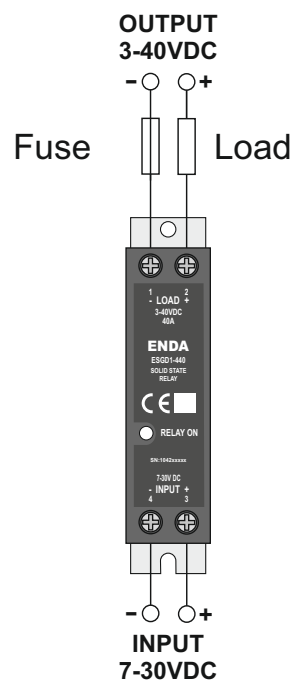
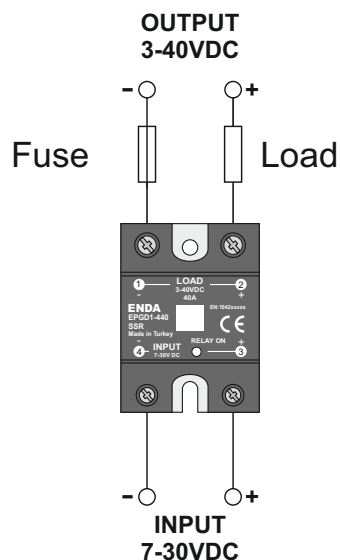


Avoid any liquid contact while the device is switched on.
DO NOT clean the device with solvent (thinner, gasoline, acid etc.) and / or abrasive cleaning agents.

DIMENSIONS



CONNECTION SAMPLES



CONNECTION DIAGRAM

