



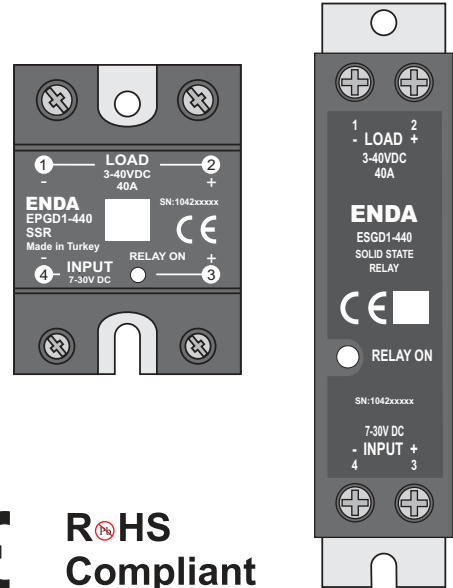
Please read this document carefully before using this product. The guarantee will be invalidated if the device is damaged by not following instructions detailed in the manual. The company shall not be responsible for any damage or losses however caused, which may be experienced as a result of the installation 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		EP	G	D	1	-	4	40
<b>Product Basic Code</b>								
<b>Panel Type</b>	EP							
<b>Slim Panel Type</b>	ES							
<b>Input Voltage</b>								
7-30V DC	G							
<b>Load Voltage Type</b>								
DC	D							
<b>Number of Pole</b>								
Single	1							
<b>Load Current</b>								
40A DC	40							
<b>Load Voltage</b>								
40V DC	4							



### ENVIRONMENTAL CONDITIONS

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

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

### THERMAL SPECS

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

### INPUTS

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

### OVERALL

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

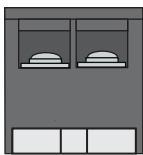
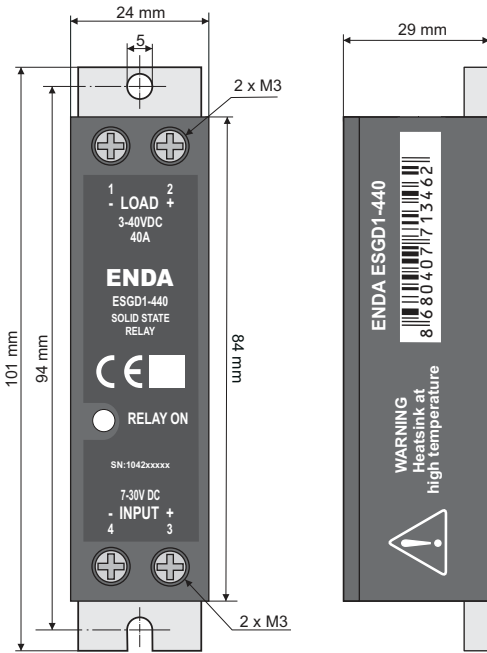
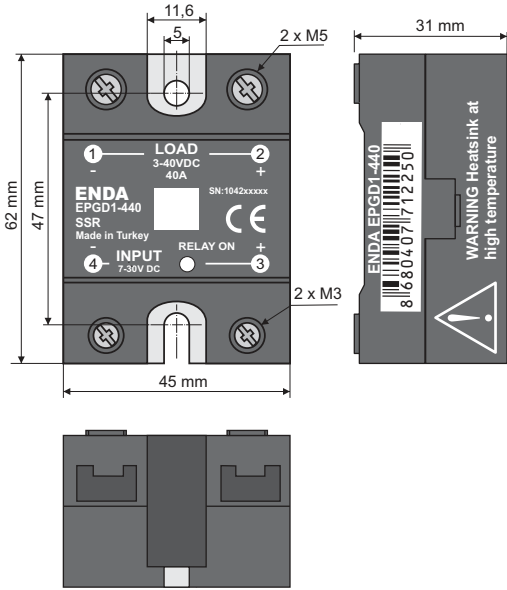


Avoid any liquid contact while the device is switched on. DO NOT clean the device with solvent (thinner, gasoline, acid etc.) and / or abrasive cleaning agents.

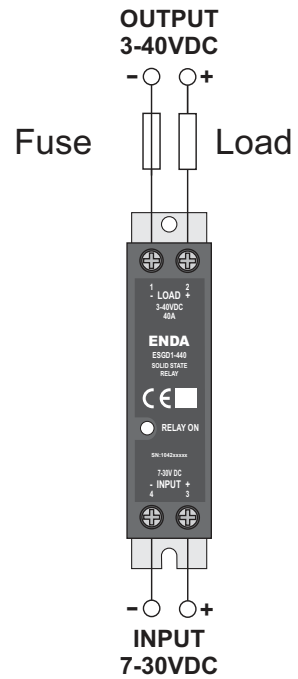
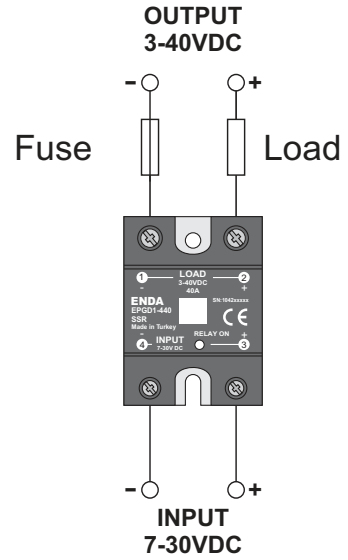


SISEL MÜHENDİSLİK ELEKTRONİK SAN. VE TİC. A.Ş.  
Sarıfili Mah. Barbaros Cad. No:18 Y.Dudullu 34775  
ÜMRANIYE/İSTANBUL-TURKEY  
Tel : +90 216 499 46 64 Pbx. Fax : +90 216 365 74 01  
url : www.enda.com.tr

## DIMENSIONS



## CONNECTION SAMPLES



## CONNECTION DIAGRAM

