INTRODUCTION:

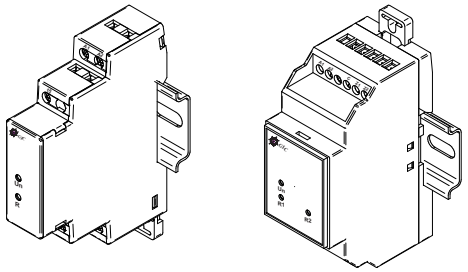
IRL Series relay output modules are designed for efficient switching of loads, keeping effective Isolation between low voltage at input switching side & high voltage Relay output side. The output relays are energized by closing the respective input contact, either by potential free switch or by NPN proximity switch. In case of proximity switch 'C' terminal is referred as ground terminal. Respective LED lights, when relay is activated. The product basically provides effective 3 way isolation between supply, input switch & relay output.

TECHNICAL SPECIFICATION:

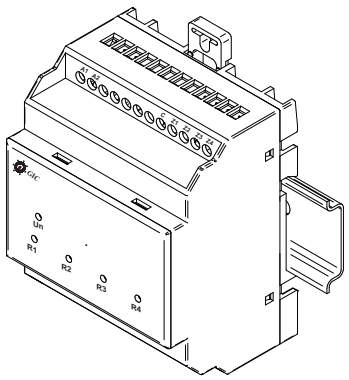
Cat. No.:			IRLA01S	IRLA02S	IRLA04S	IRLA08S
Function			Interface / Control Relay			
Supply Voltage (⏦)			85 to 265 VAC			
Frequency			47 to 63 Hz			
Power Consumption (Maximum) @ 265VAC			2.5 VA	3 VA	3.8 VA	5.6 VA
LED Indications	GREEN	ON	Power ON			
		OFF	Power OFF			
	RED	ON	Relay ON			
		OFF	Relay OFF			
Output	Relay		1 C/O, 8A (Res.) @ 240 VAC / 30 VDC			
	Contact Material		AgNi / AgSnO2			
Mechanical Life Expectancy			1 x 10^7 Operations			
Electrical Life Expectancy			1 x 10^5 Operations			
Operating Temperature			-20°C to +55°C			
Storage Temperature			-25°C to +70°C			
Relative Humidity (Non-Condensing)			15 to 85 % (RH)			
Max. Operating Altitude			2000 m			
Degree of Protection			IP-20 for Terminals; IP-40 for Housing			IP-30 for Housing
Pollution Degree			2			
Housing			Flame Retardant UL 94-V0			
Mounting			Base / Din-Rail (35 mm Symmetrical)			
Dimensions in mm (W x H x D)			See the related Diagram			
Weight (packed)			90g Approx.	129g Approx.	209g Approx.	303g Approx.
Safety:						
Test Voltage Between IEC 60947-5-1 ED.3.0 (2003-11)	Supply I/P to I/P Switch		4 KVAC			
	Supply I/P to Relay O/P		4 KVAC			
	I/P Switch to Relay O/P		4 KVAC			2.5 KVAC
Impulse Voltage Between I/P & O/P			IEC 60947-5-1	Ed. 3.0 (2009-07) 4 KV		
Single Fault			IEC 61010-1	Ed. 3.0 (2010-06)		
Insulation Resistance			UL 508	Ed.17 (1999-01) >50 kΩ		
Leakage Current			UL 508	Ed.17 (1999-01) <3.5mA		
Environmental:						
Cold Heat			IEC 60068-2-1	Ed. 6.0 (2007-03)		
Dry Heat			IEC 60068-2-2	Ed. 5.0 (2007-07)		
EMI/EMC:						
Electrical Fast Transient			IEC 61000-4-4	Ed. 3.0 (2012-04) Level IV		
Surge			IEC 61000-4-5	Ed. 2.0 (2014-05) Level IV		
Voltage Dips & Interruptions(AC)			IEC 61000-4-11	Ed. 2.0 (2004-03)		
Harmonic Current Emissions			IEC 61000-3-2	Ed. 3.0 (2005-11) Class A		
ESD			IEC 61000-4-2	Ed. 2.0 (2008-12) Level II		
Radiated Susceptibility			IEC 61000-4-3	Ed. 3.2 (2010-04) Level II		
Conducted Susceptibility			IEC 61000-4-6	Ed. 3.0 (2008-10) 10V Level III		
Conducted Emission	CISPR 14-1 Ed. 5.2 (2011-11)		Class A	Class B		
Radiated Emission			CISPR 14-1	Ed. 5.2 (2011-11) CLASS A		

Manufactured & Packed By : GENERAL INDUSTRIAL CONTROLS PRIVATE LIMITED. PUNE - 411 026.
In case of complaint: Please contact us on 020-30680011 or E-mail us on 'service@gicindia.com'

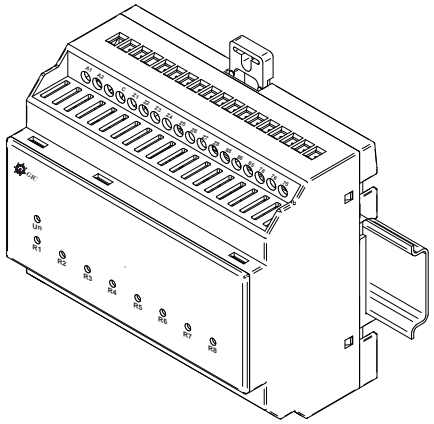
IRLA01S **IRLA02S**



IRLA04S



IRLA08S



ISOLATED RELAY OUTPUT MODULE (CONTROL RELAY)

Cat. Nos.:

IRLA01S
IRLA02S
IRLA04S
IRLA08S

RoHS ☑

⚠ Caution :

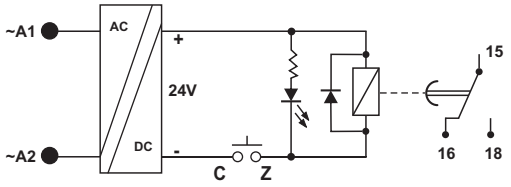
1) Do not touch the terminals while power is being supplied.
2) Tighten terminal screws with the specified torque.
3) Always follow instructions stated in product leaflet.
4) Before installation, check to ensure that specifications agree with intended application
5) Installation to be done by skilled electrician.
6) Suitable dampers should be provided in the event of excessive vibrations.

Notice :

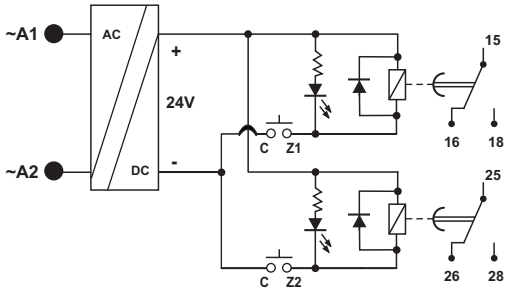
Product innovation being a continuous process, we reserve the right to alter Specification without any prior notice.

Connection Diagram:

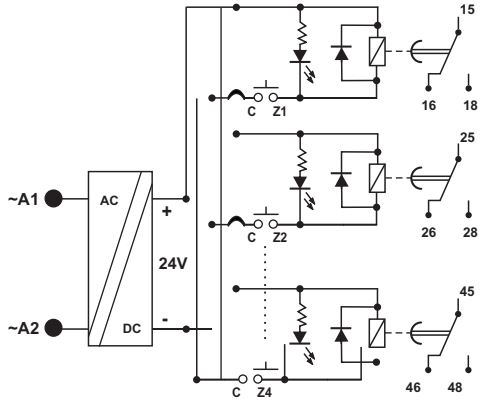
Single Channel:



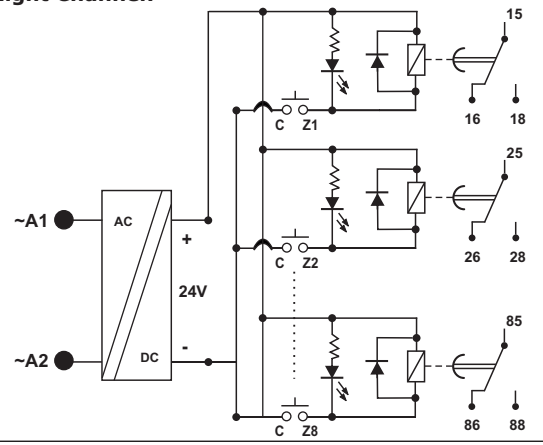
Two Channel:



Four Channel:

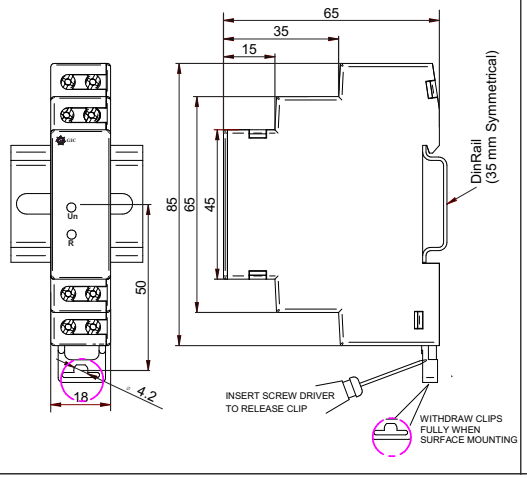


Eight Channel:



Overall Dimensions & Mounting Details:

Single Channel:



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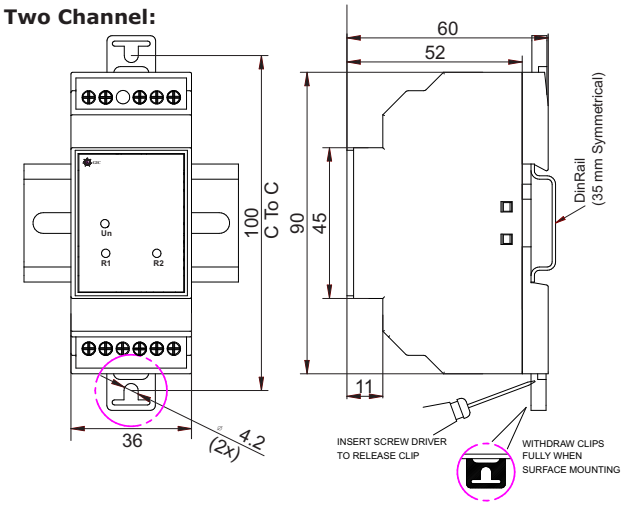

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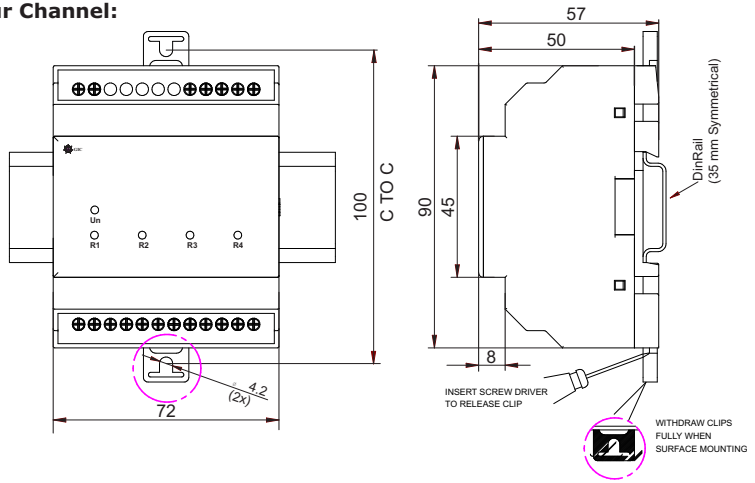


Terminal Details :

Single Channel:

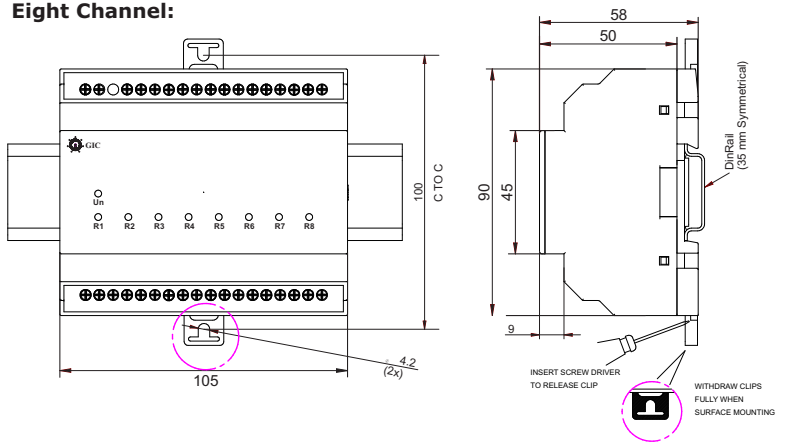
Ø3.5...4.0 mm	0.6 N.m (6 Lb.in) Terminal screw - M3
	1 x 0.8...5 mm^2 Solid / Stranded Cu Wire
AWG	1 x 18 to 10

Two, Four & Eight Channel:

Ø3.5 mm	Torque 0.54 N.m (5 Lb.in) Terminal screw - M2.6
	1 x 0.2...3.3 mm^2 Solid Wire / Standard Cu Wire
AWG	1 x 24 to 12

Use Cu wire of 75°C only.

Eight Channel:



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