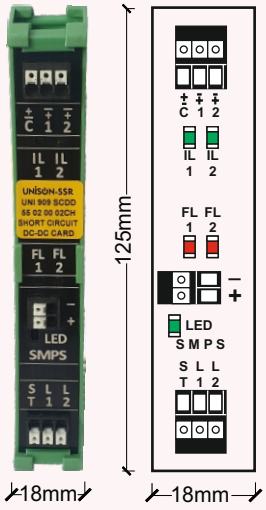
UNISON CONTROLS PVT. LTD.

SOLID STATE RELAY

ISO 9001:2015 & ISO 14001:2015 CERTIFIED by InterConformity GmbH

ADVANCE DC TO DC SHORT CIRCUIT PROTECTION CARD

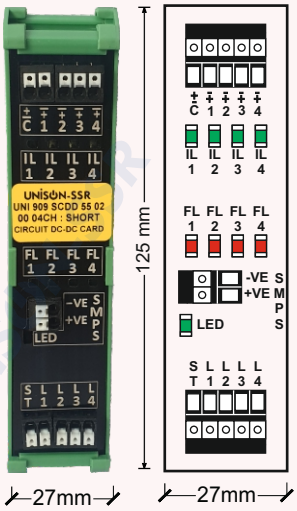
UNI 909 SCDD 55 02 00 02CH



Weight: 30 gms SSR Card

FRONT VIEW - 2 CH SCDD CARD

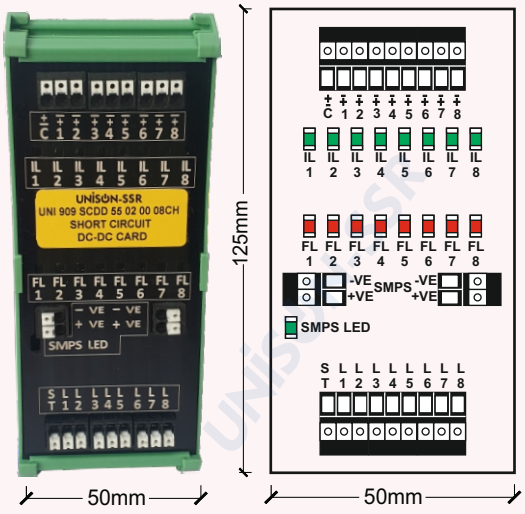
UNI 909 SCDD 55 02 00 04CH



Weight: 55 gms SSR Card

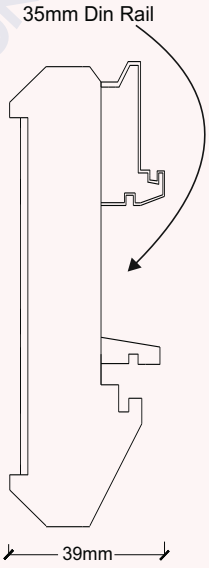
FRONT VIEW - 4 CH SCDD CARD

UNI 909 SCDD 55 02 00 08CH



Weight: 90 gms SSR Card

FRONT VIEW - 8 CH SCDD CARD



SIDE VIEW

NO NEED OF THESE IF USE 909 ADVANCE SHORT CIRCUIT PROTECTION CARD



806 DC-DC CARD WITH SSR

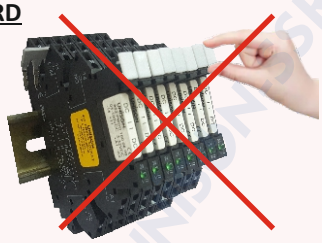


703 DC-DC CARD WITH SSR





FUSE



(SLIM SSR 6.35mm SIZE)
802 DC-DC SOCKET WITH SSR

ORDERING FORMAT

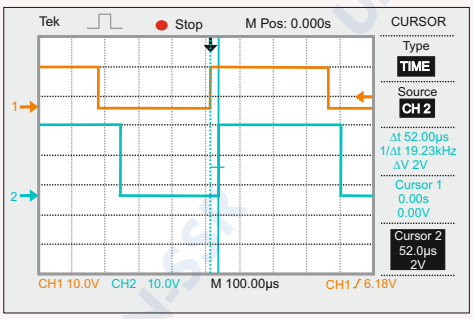
UNISON	MODEL	XX	X	X	XX	XX	XX	XXCH
UNI	909	SC	D	D	55	02	00	08CH

- SC : SHORT CIRCUIT PROTECTED
- D : DC Output
- Output Current Rating: 02
- No. of Channel: 02, 04, 08
- D : DC Input
- Output Voltage: 55: 10-55 VDC
- Control Input: 00 : 3-32 VDC; 10 : 10-32 VDC

EXAMPLES

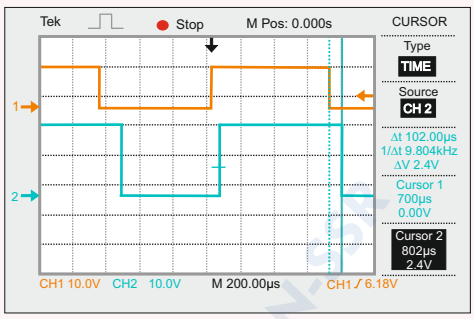
UNI 909 SCDD 55 02 00 04CH
UNI 909 SCDD 55 02 00 08CH
UNI 909 SCDD 55 02 10 08CH

TURN ON Time 52µS Waveform



CH 1 - CONTROL INPUT : 12VDC
CH 2 - LOAD OUPUT : 23VDC

TURN OFF Time 102µS Waveform



CH 1 - CONTROL INPUT : 12VDC
CH 2 - LOAD OUPUT : 23VDC

UNISON 909 SCDD CARD COMPATIBLE WITH SLIM SSR

SLIM SSR SIZE	909 CARD SIZE
6.35mm X 2 Channel = 12.7(W)	18mm(W)
6.35mm X 4 Channel = 25.4(W)	27mm(W)
6.35mm X 8 Channel = 50.8(W)	50mm(W)

- Fault or Status Indication for below condition :
  - Load Open
  - Load Short
  - Over Current or High Temperature condition above 180°C
  - Mosfet short Inside the SSR Card
- Easy Press type I/P & O/P connectors.
- Input Green LED Indication for control I/P On-Off.
- Green LED for SMPS supply Indication
- Red LED Indication for Fault Indication
- Common status can be taken from the Card for Status alarm Indication
- Available in 2,4,8 CH combination.
- Switching Speeds are Inherently Faster.
- Input to Output Isolation 2500VA
- N/O Configurations only.
- Reverse Polarity Protection on Input Side
- Output from SSR is AUTO RESET after fault problem is solved

Note : Specifications are subject to change without prior notice.

Web: www.unisoncontrols.com **Email** : info@unisoncontrols.com
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UNISON CONTROLS PVT. LTD.

SOLID STATE RELAY

General Specification

Max Barrier Layer Temperature (T_{max})		< 125 °C
Ambient Temperature Range (T_{amb})		0-85 °C
Storage Temperature Range (T_{st})		-40°C to 80°C
Housing Material		Virgin Nylon PA6
Weight	2 Channel Card	≤ 30 grams
	4 Channel Card	≤ 55 grams
	8 Channel Card	≤ 90 grams
Electrical Wire Size (Max.)		0.2 to 1.5 sq mm(24 to 16 AWG)
Pending Approvals:		UL 508,VDE,CSA 22-2 IEC 60947-5-1:2016 IEC 62314:2006

Input Technical Specifications

Parameters	Unit	Type Selection SCDD	
Control Voltage Range	V	3-32 VDC	10-32 VDC
Pickup Voltage	V	2.8 VDC	9.8 VDC
Control Supply Current Consumption	mA	1-7 mA	1-2 mA
Polarity Free Input	-	YES	
Turn On Time Input to Output	µs	60µs	
Turn Off Time Input to Output	µs	100µs	
Switching Frequency	kHz	3 kHz	
Input Impedance (Current Regulator Circuit Impedance)	Ω	1kΩ-4.5kΩ	10kΩ-16kΩ
Minimum Turn ON Voltage	VDC	3 VDC	10 VDC
Turn OFF Voltage	VDC	< 2.8 VDC	< 9.8 VDC

Fault Red LED indication & Status indication as given below:

INPUT SUPPLY/LED	UNIQUE FEATURES	OUTPUT FROM CARD	FAULT LED	STATUS INDICATION
ON	Output load is SHORT	OFF	ON	ON
OFF	Output load is SHORT	OFF	OFF	OFF
ON	Output load is OPEN	OFF	OFF	OFF
OFF	Output load is OPEN	OFF	ON	ON
ON	OVER CURRENT or HIGH temperature above 180 °C	OFF	ON	ON
OFF	OVER CURRENT or HIGH temperature above 180 °C	OFF	OFF	OFF
ON	MOSFET SHORT inside card	ON	OFF	OFF
OFF	MOSFET SHORT inside card	ON	ON	ON

Output from SSR is AUTO RESET after fault problem is solved

Output Technical Specifications @ 25°C Unless Specified

Output Circuit - Switching Element	POWER MOSFET
Operating Output DC Voltage Range	10-55 VDC
Maximum Surge Voltage	62 VDC
Minimum Load current per channel should be :	75 mA
Maximum output current per channel for short circuit	2 Amp DC
Minimum output current per channel for short circuit	100 mA DC
ON Voltage drop @2Amp	0.2 VDC

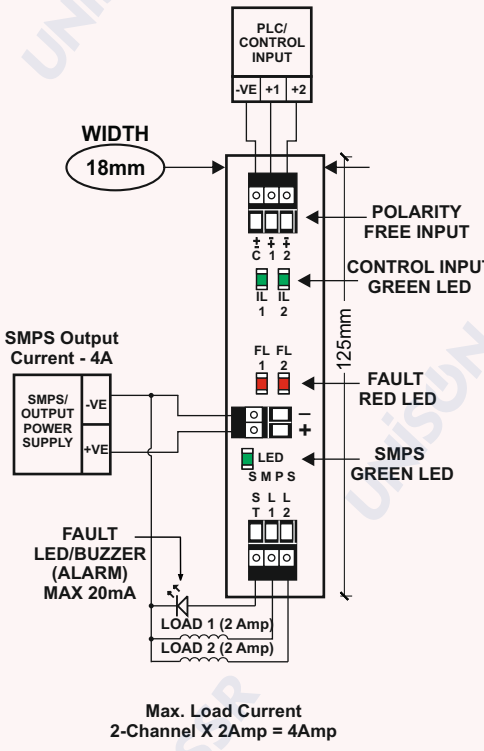
LED INDICATION

Control Input Status Indication	GREEN
SMPS Supply Status Indication	GREEN
Fault Output Indication	RED

SUPPLY SEQUENCE METHOD

For detecting load open fault, give SMPS supply to card first without any PLC input to any channel in card. After NO status (Fault-OFF) output from card then give PLC input to any channel to pin numbers +1 or +2.

UNI 909 SCDD 55 02 00 02CH
UNI 909 SCDD 55 02 10 02CH

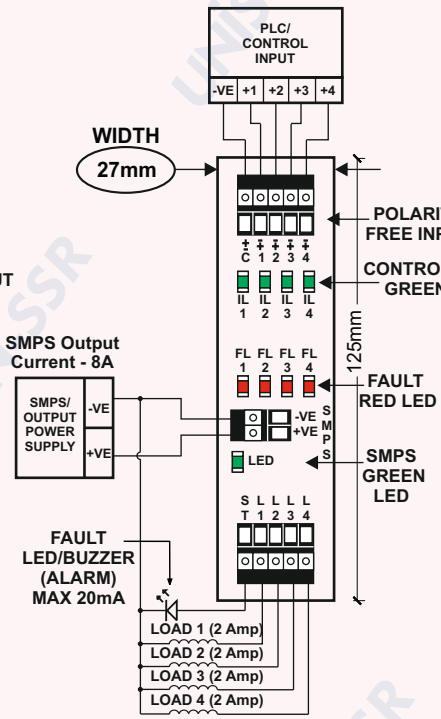


Max. Load Current
2-Channel X 2Amp = 4Amp

FRONT VIEW - 2 CH SCDD CARD

SLIM SSR SIZE	2CH CARD SIZE
6.35mm X 2 Channel = 12.7(W)	18mm(W)

UNI 909 SCDD 55 02 00 04CH
UNI 909 SCDD 55 02 10 02CH

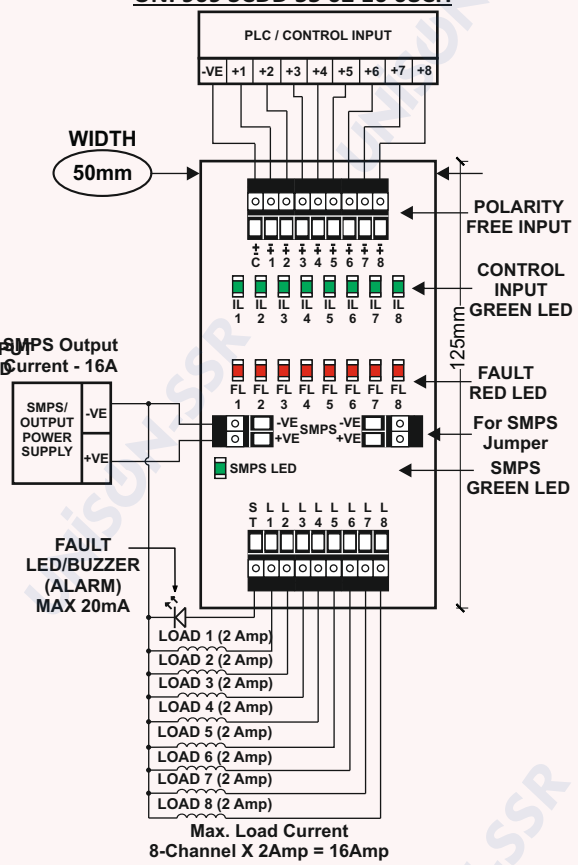


Max. Load Current
4-Channel X 2Amp = 8Amp

FRONT VIEW - 4 CH SCDD CARD

SLIM SSR SIZE	4CH CARD SIZE
6.35mm X 4 Channel = 25.4(W)	27mm(W)

UNI 909 SCDD 55 02 00 08CH
UNI 909 SCDD 55 02 10 08CH



Max. Load Current
8-Channel X 2Amp = 16Amp

FRONT VIEW - 8 CH SCDD CARD

SLIM SSR SIZE	8CH CARD SIZE
6.35mm X 8 Channel = 50.8(W)	50mm(W)

Note : Specifications are subject to change without prior notice.

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