

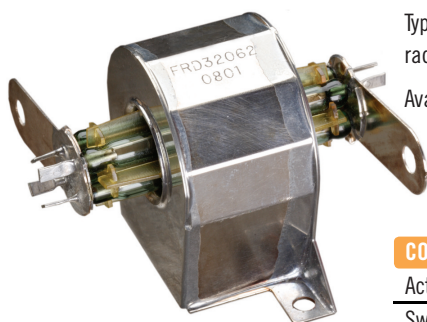


RS stock numbers : 712-7600, 712-7607



FRD30000

fully screened
6.5kV, 20A



The very high carry current capacity and high voltage isolation of this series is achieved through the use of multiple high vacuum reed switch contacts, ensuring a high level of performance and reliability. The two standard models will carry currents of 12 and 20Amps respectively at 30MHz and feature silver plated, fully screened coil assemblies for ultra-low RF losses. Typical applications include over the horizon (OTH) HF radar systems and 1kW base station transmitters.

Available as Form A (SPNO) only.

- **Up to 20A Carry Current at 30MHz**
- **6.5kV DC isolation across contacts**
- **Fully Screened Coil for Low RF Loss**
- **Cost Effective alternative to Vacuum Ceramic Devices**
- **Unique Design**
- **Suitable for 1 kW HF Transmitters**

RS Stock code 712-7607 712-7600

CONTACT	UNITS	CONDITIONS	FRD32061	FRD32062
Action (form A, B or Latching)			A	A
Switching Voltage	V	DC max	20	20
Switching Current	A	DC max	1	1
Carry Current	A	RMS at 30MHz max	12	20
Isolation	kV	DC max	6	6.5
Capacitance (max.)	pF	coil/screen gnd	2	2
Lifetime	operations	dry switching	10 ⁹	10 ⁹
		24V, 1A	10 ⁷ -10 ⁸	10 ⁷ -10 ⁸
Contact Resistance	mOhms	maximum (typical)	50 (10)	50 (10)
Insulation Resistance	Ohms	minimum (typical)	10 ¹⁰ (10 ¹³)	10 ¹⁰ (10 ¹³)
COIL at 20°C				
Nominal Working Voltage	VDC		24	24
Must Operate	VDC	max	16	16
Must Release	VDC	min	4	4
Nominal Resistance	Ohms	+/-10%	430	270
RF Screening			Full	Full
RF Screening Connection			Via Mtg Screws	Via Mtg Screws
RELAY				
Operate time (incl. bounce)	ms		5	5
Release time	ms		3	3
Isolation contact to all other terminals	kV	DC max	10	10
Isolation coil to screen	kV	DC max	0.5	0.5
Capacitance contact to all other terms	pF	contacts open	6.0	6.0
ENVIRONMENTAL				
Storage temperature range	°C		-55°C to +125°C	
Operating temperature range	°C		-40°C to +85°C	
Weight	gm	typical	76	108

Cynergy3 Components Ltd.
7 Cobham Road
Ferndown Industrial Estate
Wimborne, Dorset BH21 7PE
Telephone +44 (0) 1202 897969

Email:sales@cynergy3.com

ISO9001 CERTIFIED

www.cynergy3.com

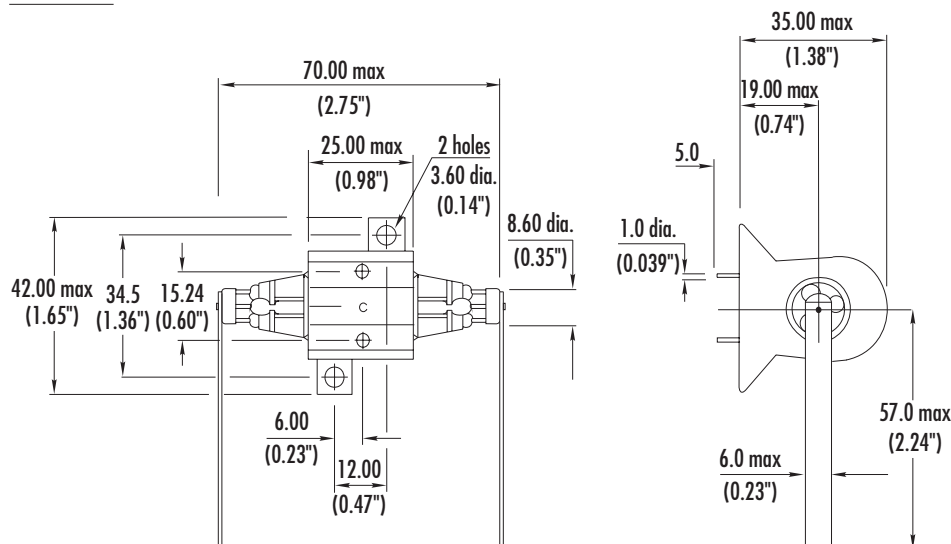
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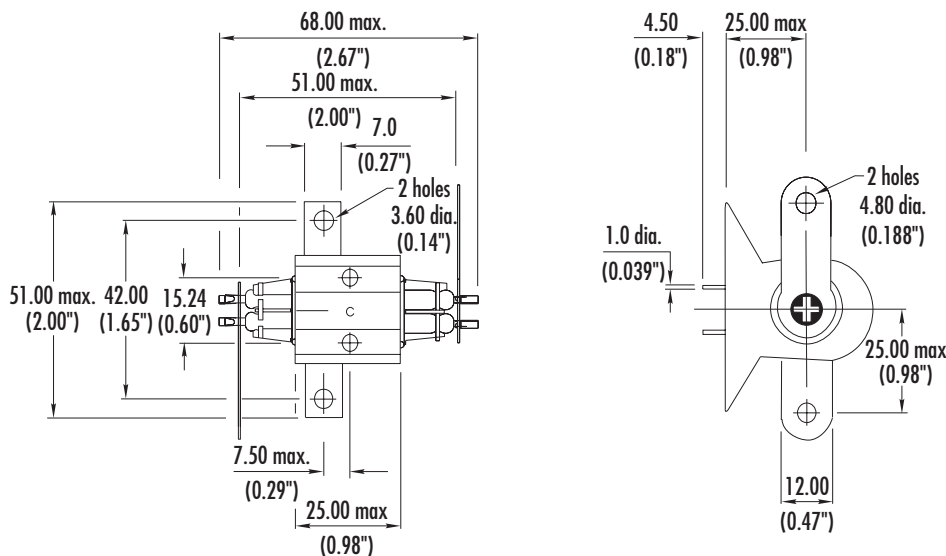
Mechanical Dimensions

All dimensions are in millimeters (inches)

FRD32061



FRD32062



ISO9001 Certified

USA

Sales & Tech Support(866) 258-5057
Email: sales@cynergy3.com
Cynergy3 Components
2320 Paseo de las Americas, Suite 104
San Diego, CA 92154

EUROPE - UK

Telephone +44 (0) 1202 897969
Fax +44 (0) 1202 891918
Email: sales@cynergy3.com
Cynergy3 Components Ltd.
7 Cobham Road
Ferndown Industrial Estate
Wimborne, Dorset BH21 7PE

ASIA - Thailand

Telephone +66 (0)2 665 2517
Fax +66 (0)2 665 2588
Cynergy 3 Components, Asia
18/8 Fico Place 12th Floor
Soi Sukhumvit 21 (Asoke)
Klongtoey Nua, Wattana
Bangkok, Thailand 10110