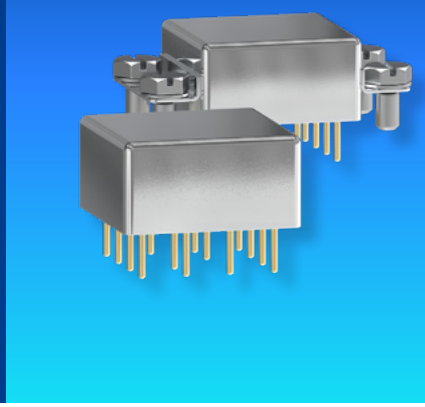
CROUZET

2 A 4 PDT Non-Latching

Hermetically Sealed Relays



Electrical Control & Protection > Hermetically Sealed Relays > Latching Relays > 10 Amps **> 4 PDT**

Crouzet Hermetically Sealed Relays are ideal for switching electrical loads in harsh environments requiring extended lifetime. Available in multiple current options, voltage ratings and contact arrangements to meet the specific needs of each demanding applications in Aerospace, Railway, Nuclear and Defense.

Offer Description

- Type: Non Polarized, Non-Latching, Polarized, Non-Latching
- Contact arrangement: 4 PDT
- Nominal Current: 2 A
- Contact Voltage Rating: 28 VDC
- Coil Supply: Direct Current
- Operating power at nominal voltage: 2 W
- Weight: 22 g
- Polarizing pin: Yes (with spacer) for ASNE

Qualifications

- Aerosapce: ASNE0244, Specification: 421-504/83, ASNE0669, Specification: 482.188/89, MIL-PRF-83536, EUROCAE ED-14G / DO160G, NF EN ISO 9227, NF EN ISO 2685, ABD0100.1.2, ABD0100.1.8
- Industry: IEC 61810-1, IEC 61810-7, IEC 61811-1

Standard Offer

2 A 4 PDT Non-Latching Hermetically Sealed Relays

Coil voltage	New Part Number	Connection		Mounting		Protection	Key	Qualification	Market	P/N
		Type	Material	Flange	Screw					
12 VDC	RN02400 X012D PT1X 00	Pin	Tin	Horizontal	-	-	-	-	Defense	03205017
	RN02400 X012D PT0X 00	Pin	Tin	-	-	-	-	-	Defense	03205102
28 VDC	RN02400 X028D PT0X 00	Pin	Tin	-	-	-	-	-	Aerospace	03205125
	RN02400 P028D PT0X 00	Pin	Tin	-	-	√	-	-	Aerospace	03205200
	RN02400 X028D PG4X 00	Pin	Gold	Horizontal	4/40	-	-	ASNE 0244-28 A0	Aerospace	03206024
	RN02400 P028D PG4X 00	Pin	Gold	Horizontal	4/40	√	-	ASNE 0669D28A0	Aerospace	03206048

Accessories

Silicone rubber gasket
P/N: 284-173

Only available for crimp style socket

Insulating rubber gasket
P/N: 284-396

For soldering on double side PCB

Soldering sockets
P/N: S320S01A022

For wires

Soldering sockets
P/N: S320S01A021
S320S01A023

For PCB

Contact Rating (A)

Type of Load (High Level)	Minimum operating cycles	28 VDC
Resistive load	100,000	2 A
Inductive load (L/R = 5 ms)	20,000	0.5 A
Motor load	-	-
Lamp load	100,000	0.2 A
Overload (resistive load)	100	4 A

Coil Characteristics

Nominal operating voltage	12 VDC	28 VDC
Maximum operating voltage	14 V	32 V
Pull in maximum voltage at +20 °C	7 V	14.5 V
Pull in maximum voltage at +125 °C	10 V	19.8 V
Hold voltage at +20 °C	4 V	8 V
Drop-out voltage of -65° to +125 °C	0.8 V	1.5 V
Coil resistance in Ohms ± 10% at +25 °C	72 Ω	350 Ω
Maximum back EMF (Volts) with transient suppression	-	± 42

Electrical Characteristics

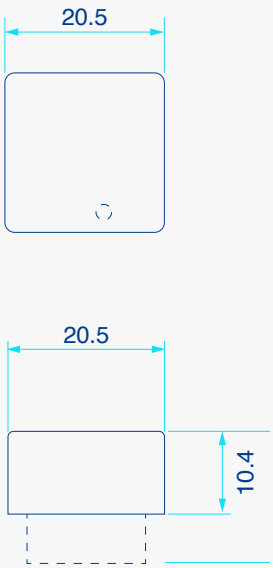
Voltage drop at nominal current (before life)	50 mV max for ASNE 100 mV max
Voltage drop at nominal current (after rated life)	150 mV max
Operate time at nominal voltage at 25 °C (DC)	5 ms max 6 ms max for ASNE
Release time at nominal voltage at 25 °C (DC)	5 ms max 6 ms max for ASNE
Bounce time	2.5 ms max 2 ms max for ASNE
Dielectric strength at sea level	
Contacts to ground and between contacts	500 Vrms 1000 Vrms for ASNE
Coil to ground	750 Vrms 1000 Vrms for ASNE
Dielectric strength at 70,000 Ft (all points)	750 Vrms 1000 Vrms for ASNE
Insulation resistance	
Initial	> 1,000 M at 100 VDC > 100 M at 500 VDC for ASNE
After Life Tests	> 50 MΩ at 500 VDC
Low level contact rating	30 µA 30 mVDC
Initial contact resistance	< 75 mΩ < 100 mΩ <50 mΩ for ASNE
End of life contact resistance	150 mΩ

Environmental & Mechanical Characteristics

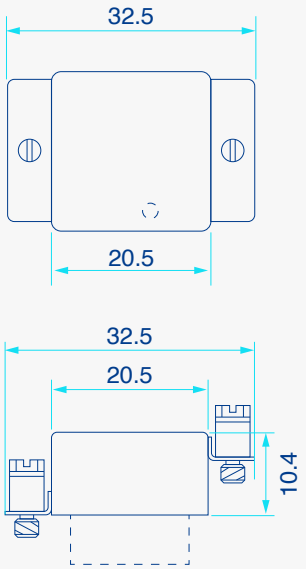
Temperature range	-65 °C to +125 °C -55 °C to +125 °C for ASNE
Operating position	Any
Resistance against vibrations EUROCAE ED-14G / DO160G	Sinus: 30 g - 20 - 2,000 Hz Sinus for ASNE: 1.5 g - 10 - 40 Hz, 0.7 mm of 40 - 80 Hz, 20 g - 80 - 2 000 Hz, (1 oct/min) 2h/axis Random: 0.4 g²/Hz - 50 - 2,000 Hz
Mechanical shock (any axis) EUROCAE ED-14G / DO160G	100 g - 6 ms 1/2 sinus for ASNE
Maximum contact opening time under vibration and shock	10 µs
Shake resistance	40 g
Acceleration	10 g all directions 20 g all directions for ASNE
Insertion and extraction force on base. As per specifications:	482.188/89 and 421-504/83 : 17 N max. for ASNE
Leak rate	≤ 1 x 10^{-8} atm cm³/s
Damp heat	IEC 60068-2-78, Test condition Cab,EUROCAE ED-14G / DO160G, Category A-D following installation for ASNE
Salt mist	IEC 60068-2-11, 96h for ASNE

Mountings

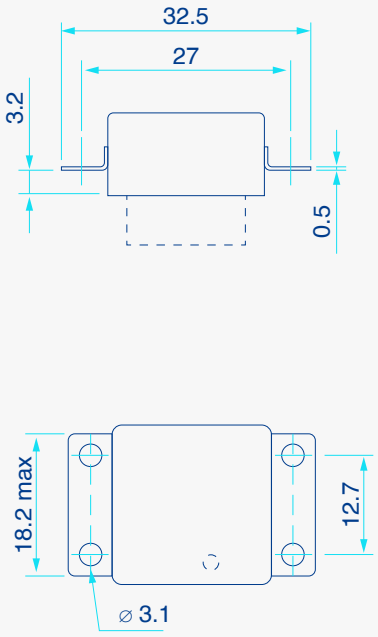
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4 Assembly with 4/40 captive screw

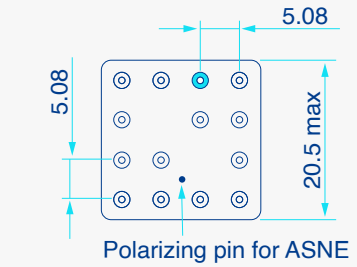


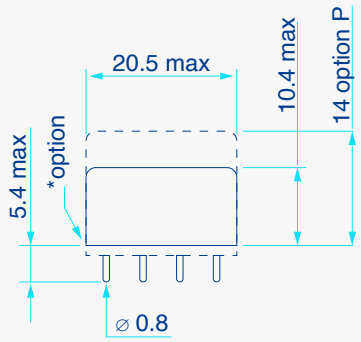
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Connections

P Connexion type: Pin

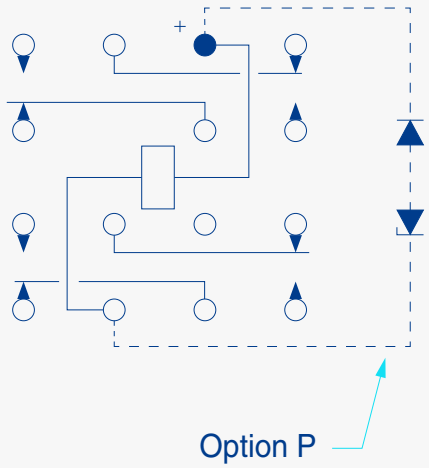




* Option: • Silicone rubber gasket Only available for crimp style rocket - Ref : 284-173
• For soldering on double side PCB, use insulating rubber gasket- Ref : 284-396

Connection Diagrams

DC



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