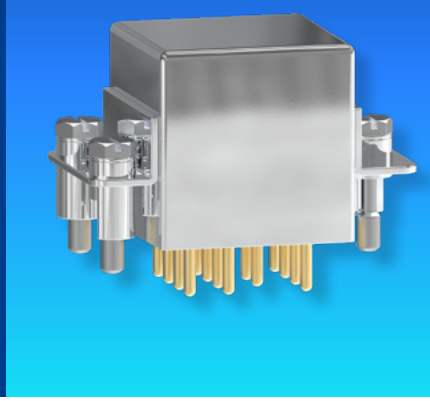
CROUZET

10 A 2 NO-NC Non-Latching

Hermetically Sealed Relays



Electrical Control & Protection > Hermetically Sealed Relays > Non-Latching Relays > 10 Amps **> 2 NO/NC**

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: Polarized, double break contacts non-latching
- Contact arrangement: 2 NO-NC
- Nominal Current: 10 A
- Contact Voltage Rating: 25 VDC to 140 VDC
- Mechanical Life: 5 million ops
- Coil Supply: Direct current
- Operating power at nominal voltage: 3 W
- Weight: 70 g
- Polarizing Pin: No

Qualifications

- Industry: IEC 61810-1, IEC 61810-7, IEC 61811-1
- Railway: EN 50155,NF CF 62 002,EN 45545-2

Standard Offer

10 A 2 NO-NC Non-Latching Hermetically Sealed Relays

Coil voltage	New Part Number	Connection		Mounting		Protection	Key	Qualification	Market	P/N
		Type	Material	Flange	Screw					
24 VDC	RN10022 X024D PG3K 00	Pin	Gold	Horizontal	M3	-	UYY	NF-62002	Railway	03265672
36 VDC	RN10022 X036D PG3K 00	Pin	Gold	Horizontal	M3	-	YYY	NF-62002	Railway	03265671
72 VDC	RN10022 X072D PT0X 00	Pin	Tin	-	-	-	-	-	Railway	03265601
	RN10022 X072D PG3K 00	Pin	Gold	Horizontal	M3	-	WYY	NF-62002	Railway	03265670
110 VDC	RN10022 X110D PG3K 00	Pin	Gold	Horizontal	M3	-	XYY	NF-62002	Railway	03265684

Accessories

Soldering sockets
P/N: S326 S XX A

For wires or PCB EN 45545

Non-Sealed sockets
P/N: S326 P XX A

With crimp contacts EN 45545

Sockets with FASTON lugs
P/N: S326 F XX A

With crimp contacts EN 45545

Contact Rating (A)

Type of Load (High Level)	Minimum operating cycles	72 V
Resistive load (L/R = 0)	1,000,000 without failure + 1,000,000 with a failure rate < 10-5	3 A
Inductive load (L/R = 30 ms)	1 000,000 without failure + 1,000,000 with a failure rate < 10-5	1 A
Overload (resistive load at 90 V max)	100	6 A

Coil Characteristics

Nominal operating voltage	24 VDC	36 VDC	72 VDC	110 VDC
Maximum operating voltage at +70°C	33 V	45 V	90 V	137.5 V
Minimum operating voltage at +70°C, coil energized at 1.15 Un during 1h	18.5 V	25.2 V	50.4 V	77 V
Pick up voltage at +23°C	14 V	20.4 V	38.5 V	68 V
Pull in maximum voltage at +20°C	-	-	-	-
Pull in maximum voltage at +125°C	-	-	-	-
Hold voltage at +20°C	-	-	-	-
Hold voltage at +23°C	6 V	10 V	18 V	28 V
Drop-out voltage at + 23°C	1.8 V	2 V	5 V	8 V
Drop-out voltage at - 25°C	1.5 V	1.6 V	4 V	6 V
Drop-out voltage of - 65° to + 125°C	-	-	-	-
Coil resistance in Ohms ±10% at +20°C	210 Ω	550 Ω	2,650 Ω	5,000 Ω
Maximum back EMF (Volts) with transient suppression	-	-	-	-

Electrical Characteristics

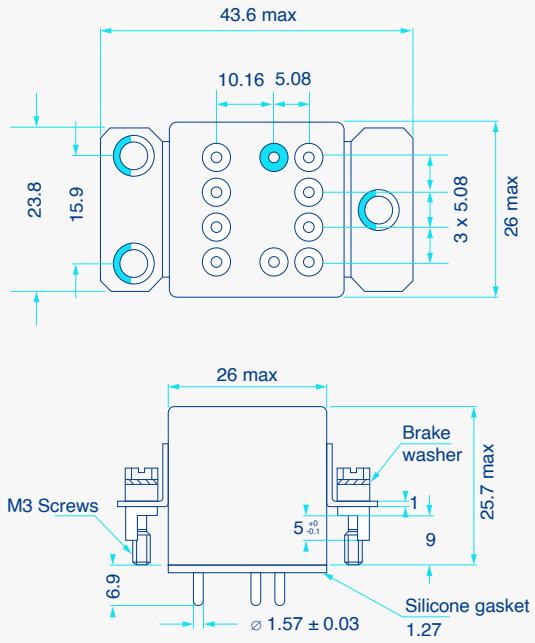
Voltage drop at nominal current (before life)	150 mV max
Voltage drop at nominal current (after rated life)	175 mV max
Operate time at nominal voltage at 25 °C (DC)	15 ms
Release time at nominal voltage at 25 °C (DC)	10 ms max for DC voltage 50 ms max for AC voltage
Bounce time	1 ms max
Dielectric strength at sea level	
Contacts to ground and between contacts	1,500 Vrms
Coil to ground	1,500 Vrms
Dielectric strength at 70,000 Ft (all points)	500 Vrms
Insulation resistance	
Initial	> 100 MΩ at 500 VDC
After Life Tests	> 50 MΩ at 500 VDC
Initial contact resistance	< 15 mΩ
End of life contact resistance	17.5 mΩ

Environmental & Mechanical Characteristics

Temperature range	-65 °C to +125 °C
Operating position	Any
Resistance against vibrations IEC 61373, Category I, Class B, Body mounted	Sinus: 30 g - 10 - 3,000 Hz Random: 0.4 g^2/Hz - 50 - 2,000 Hz
Mechanical shock (any axis) IEC 61373, Category I, Class B, Body mounted	100 g - 6 ms
Maximum contact opening time under vibration and shock	10 µs
Shake resistance	40 g
Acceleration	15 g all directions
Leak rate	≤ $1x10^{-8}$ atm cm^3/s
Damp heat	IEC 60068-2-78, Test condition Cab
Salt mist	IEC 60068-2-11, 96 h
Fire behavior	EN 45545-2

Mountings

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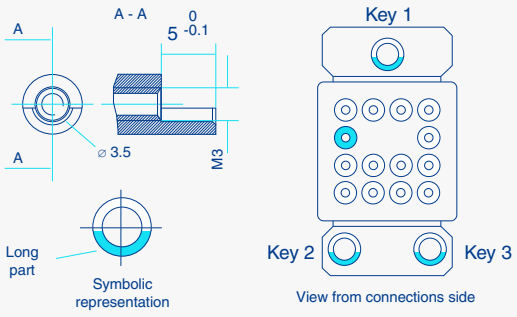


Coding keys for H mounting style

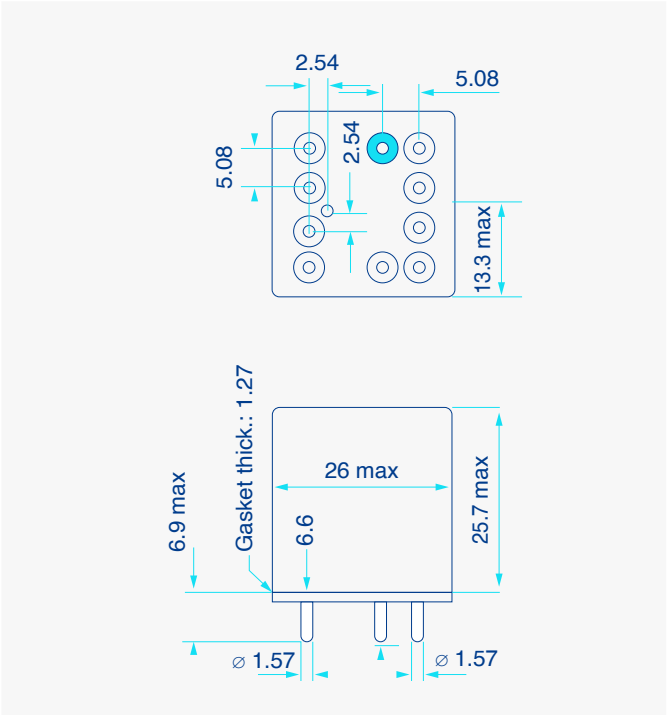
GUIDANCE CODES

U	V	W	X	Y	Z	
						Key 1
						Key 2
						Key 3

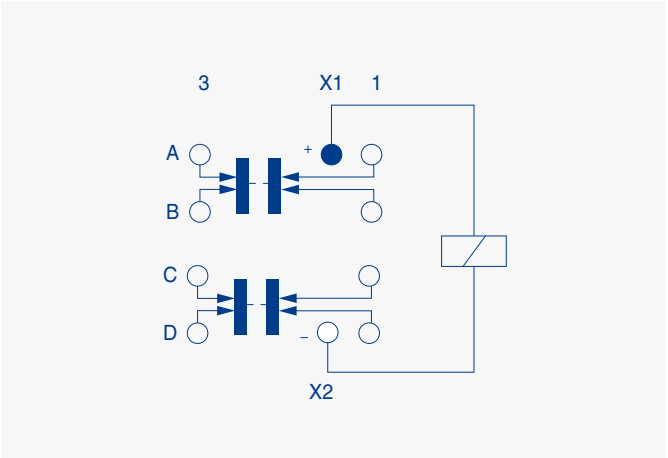
The coding example opposite is XXX



Connections



Connection Diagrams



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