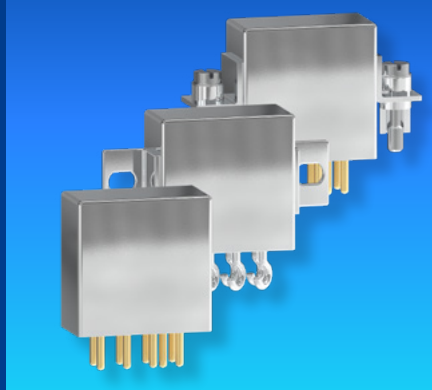
CROUZET

10 A 2 PDT Non-Latching

Hermetically Sealed Relays



Electrical Control & Protection > Hermetically Sealed Relays > Non-Latching Relays > 10 Amps **> 2 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 Polarized, Simple break contacts non-latching
- Contact arrangement: 2 PDT
- Nominal Current: 10 A
- Contact Voltage Rating: Aerospace: 28 VDC & 115 VAC 400 Hz
  Railway: 5 VDC to 140 VDC
- Coil Supply: Direct current or alternative current 50 /400 Hz or 50 / 60 Hz or 400 Hz
- Operating power at nominal voltage: 2.5 W
- Weight: ASNE: 40 g to 46 g max
- Polarizing Pin : Yes for 24 VDC, 36 VDC, 72VDC, 110VDC and 115 VAC

Qualifications

- Industry: IEC 61810-1,IEC 61810-7, IEC 61811-1
- Aerospace : ASNE0246; ASNE0245; Specification: 421.504/83; ASNE0670 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
- Railway: EN 50155, NF CF 62 002, EN 45545-2

Standard Offer

Coil voltage	New Part Number	Connection		Mounting		Protection	Key	Qualification	Market	P/N
		Type	Material	Flange	Screw					
24 VDC	RN10200 X024D PT0X 00	Pin	Tin	-	-	-	-		Railway	PF103332
28 VDC	RN10200 X028D HT1X 00	Hooks	Tin	Horizontal	-	-	-		Aerospace	03165027
	RN10200 P028D PG1X 00	Pin	Gold	Horizontal	-	√	-		Aerospace	03165110
	RN10200 X028D PG1X 00	Pin	Gold	Horizontal	-	-	-		Aerospace	03165117
	RN10200 P028D HT1X 00	Hooks	Tin	Horizontal	-	√	-		Aerospace	03165125
	RN10200 X028D PG3X 00	Pin	Gold	Horizontal	M3	-	-		Defense	03165191
	RN10200 X028D PG4X 00	Pin	Gold	Horizontal	4/40	-	-	ASNE 0245-28A0	Aerospace	03166015A
	RN10200 P028D PG3X 00	Pin	Gold	Horizontal	M3	√	-		Defense	03165202
	RN10200 P028D PG4X 00	Pin	Gold	Horizontal	4/40	√	-	ASNE 0670D28A0	Aerospace	03166057
36 VDC	RN10200 X036D PT0X 00	Pin	Tin	-	-	-	-		Railway	PF102334
72 VDC	RN10200 X072D PT0X 00	Pin	Tin	-	-	-	-		Railway	03165300
	RN10200 X072D PG3K 00	Pin	Gold	Horizontal	M3	-	WU	NF-62002	Railway	03165760
110 VDC	RN10200 X110D PT0X 00	Pin	Tin	-	-	-	-		Railway	03165761
115 VAC	RN10200 X115A PG4X 00	Pin	Gold	Horizontal	4/40	-	-	ASNE 0245-115B0	Aerospace	03166046A

Accessories

Soldering sockets
P/N: S316 S XX A
ASNE 0250

For wires and PCB

Sealed sockets
P/N: 316 E XX A
S316 E XX B
S316 E XX D
ASNE 0252

With crimped contacts

Contact Rating (A)

Type of Load (High Level)	Minimum operating cycles	28 VDC	115 VAC - 400 Hz	72 V
Resistive load	10,0000	10 A	10 A	-
Inductive load	20,000	8 A at L/R = 5 ms	8 A at cos φ = 0.75	-
Motor load (Inrush current ≤ 24A for 20ms)	10,0000	4 A	4A	-
Lamp load (Inrush current ≤ 24A for 20ms)	10,0000	2 A	2 A	-
Overload (resistive load)	50	40 A	40 A	-
Resistive load (L/R = 0)	1,000,000 without failure + 1,000,000 with a failure rate < 10^5	-	-	1 A
"Inductive load (L/R = 30 ms)"	1,000,000 without failure + 1,000,000 with a failure rate < 10^5	-	-	0.5 A
Overload (resistive load at 90 VDC max)	100	-	-	1.3 A

Coil Characteristics

Nominal operating voltage	24 VDC	28 VDC	36 VDC	72 VDC	110 VDC	115 VAC 400 Hz
Maximum operating voltage	33 V	32.5 V	45 V	90 V	137.5 V	130 V
Pull in maximum voltage at +20 °C	-	13.5 V	-	-	-	70 V
Pull in maximum voltage at +125 °C	-	19.8 V	-	-	-	96 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	-
Hold voltage at +20 °C	6 V	7 V	10 V	18 V	28 V	30 V
Drop-out voltage of -65° to +125 °C	-	1.5 V	-	-	-	5 V
Drop-out voltage at + 20°C	1.8 V	-	2 V	5 V	8 V	-
Drop-out voltage of -25 °C	1.5 V	-	1.6 V	4 V	6 V	
Coil resistance in Ohms ± 10% at +20 °C	210 Ω	320 Ω	600 Ω	2,400 Ω	5,000 Ω	4,700 Ω
Maximum back EMF (Volts) with transient suppression	-	± 42	-	-	-	-
Rated burden	-	-	-	-	-	40 mA

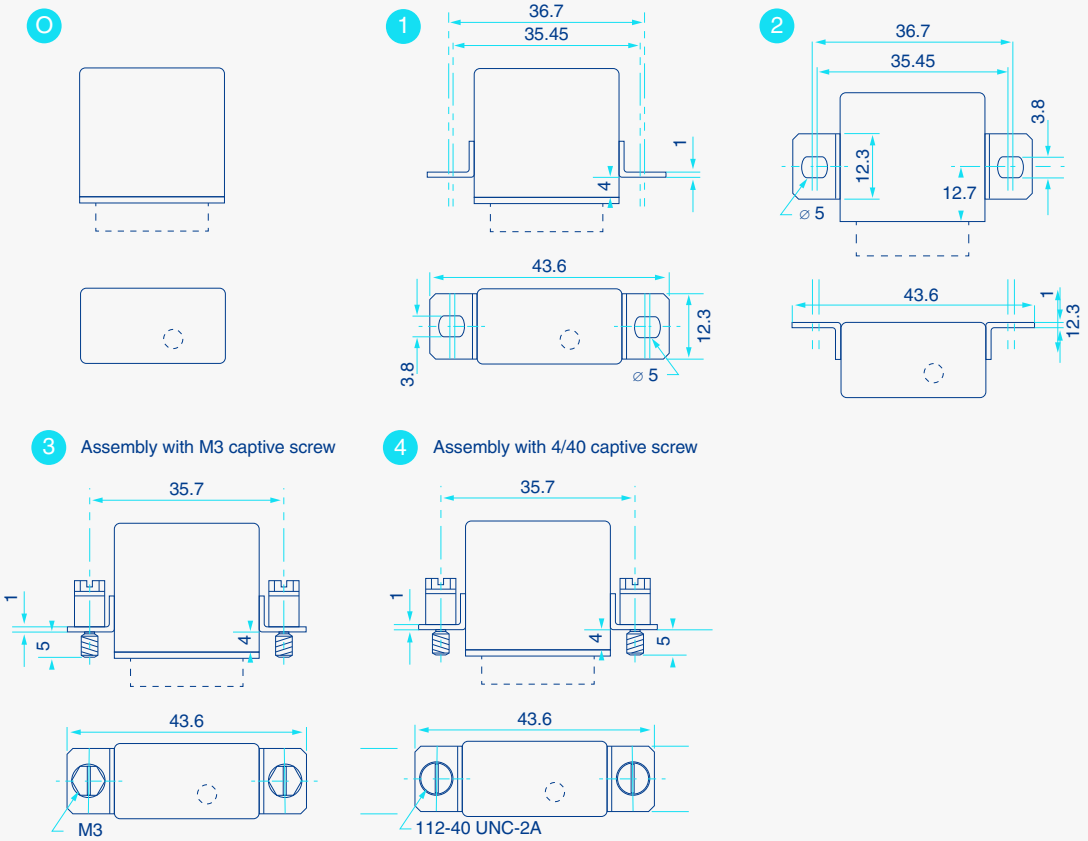
Electrical Characteristics

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)	Railway: 15 ms max ASNE0245 & ASNE0670: 10 ms max for DC voltage ASNE0246: 15 ms max. for DC voltage ASNE0245 & ASNE0246: 20 ms max. for AC voltage
Release time at nominal voltage at 25 °C (DC)	Railway: 15 ms max ASNE0245 & ASNE0670: 10 ms max. for DC voltage ASNE0246: 15 ms max. for DC voltage ASNE0245 & ASNE0246: 50 ms max. for AC voltage
Bounce time	1 ms max
Dielectric strength at sea level	
Contacts to ground and between contacts	1,250 Vrms / 1,500 Vrms
Coil to ground	1,000 Vrms / 1,500 Vrms
Dielectric strength at 70,000 Ft (all points)	350 Vrms / 500 Vrms
Insulation resistance	
Initial	> 100 MΩ at 500 VDC
After Life Tests	> 50 MΩ at 500 VDC
Low level contact rating	2 mA 30 mVDC
Initial contact resistance	< 15 mΩ
End of life contact resistance	17.5 mΩ

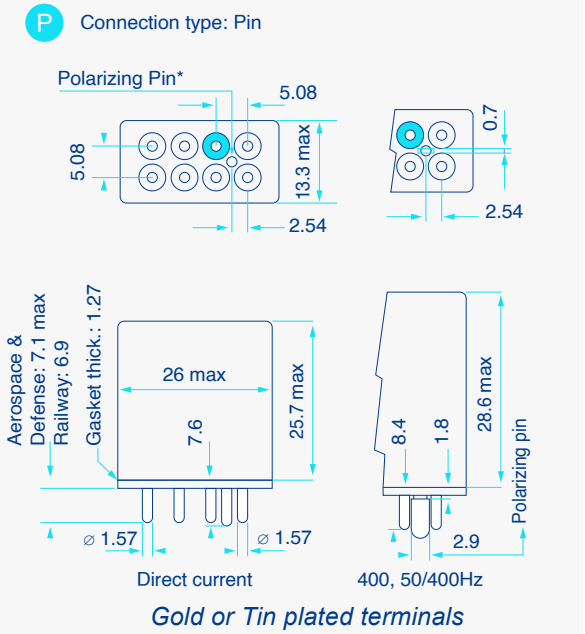
Environmental & Mechanical Characteristics

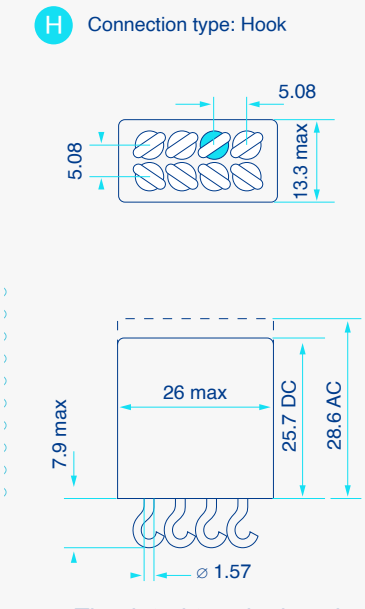
Temperature range	-55 °C to +125 °C
Operating position	Any
Resistance against vibrations IEC 61373, Category I, Class B, Body mounted EUROCAE ED-14G / DO160G As per specifications: 482.188/89 and 421-504/83	Sinus for Railway: 20 g - 10 - 2,000 Hz Sinus for Railway: 30 g - 10 - 3,000 Hz Ramdom for Aerospace & Defense: : 0.4 g²/Hz - 50 - 2,000 Hz Random for Railway: 0.4 g²/Hz - 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
Mechanical shock (any axis) IEC 61373, Category I, Class B, Body mounted EUROCAE ED-14G / DO160G As per specifications: 482.188/89 and 421-504/83	100 g - 6 ms 1/2 sinus 3 axes
Maximum contact opening time under vibration and shock	10 µs
Shake resistance	40 g
Acceleration	Aerospace & Defense: 20 g all directions Railway: 15 g all directions
Leak rate	≤ $1x10^{-8}$ atm cm³/s
Damp heat	EUROCAE ED-14G / DO160G, IEC 60068-2-78
Salt mist	NF EN ISO 9227, 96 h / IEC 60068-2-11, 96 h
Fire behavior	Aerospace: EUROCAE ED-14G / DO160G + NF EN ISO 2685 Railway: EN 45545-2 Defense: MIL-STD-202

Mountings



Connections

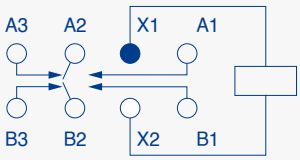




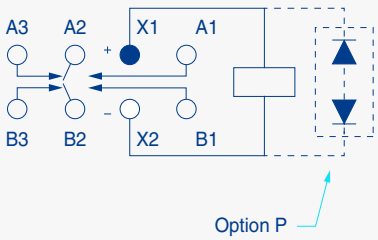
*Polarizing Pin for 24 VDC, 36 VDC, 72 VDC, 110 VDC and 115 VAC

Connection Diagrams

AC



DC



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