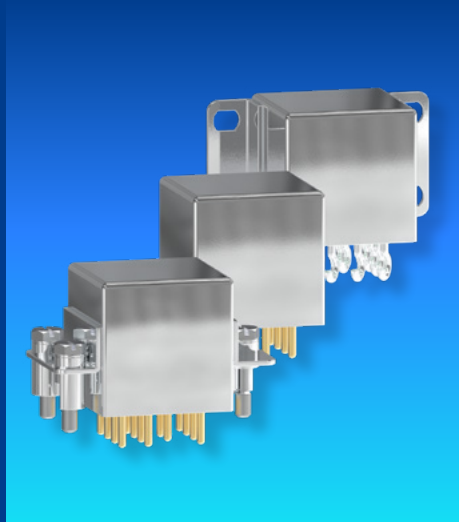
CROUZET

10A 4PDT Non-Latching

Hermetically Sealed Relays



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

Offer Description

- Type: Non-Latching Single Break
- Contact arrangement: 4 PDT
- Nominal Current: 10 A
- Contact Voltage Rating: 28 VDC & 115 VAC 400 Hz / 5V DC to 140 VDC
- Coil Supply: Direct current or alternative current
- Operating power at nominal voltage: 2.7 W to 3 W
- Weight: 70 g to 76 g max
- Polarizing Pin: No

Qualifications

- Aerospace : ASNE0246; ASNE0245 Specification: 421.504/83; ASNE0670 Specification: 482.188/89; 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

10A 4PDT Non-Latching Hermetically Sealed Relays

Coil voltage	New Part Number	Connection		Mounting		Protection	Key	Qualification	Market	P/N
		Type	Material	Flange	Screw					
12 VDC	RN10400 X012D PG0X00	Pin	Gold	-	-	-	-	-	Defense	03265104
	RN10400 X012D PG3K00	Pin	Gold	Horizontal	M3	-	ZUU	NF-62002	Railway	03265907
24 VDC	RN10400 X024D PG3K00	Pin	Gold	Horizontal	M3	-	UUU	NF-62002	Railway	03265060
	RN10400 X024D PT0X00	Pin	Tin	-	-	-	-	-	Railway	03265302
28 VDC	RN10400 X028D HT1X00	Hooks	Tin	Horizontal	-	-	-	-	Aerospace	03265021
	RN10400 P028D PG1X00	Pin	Gold	Horizontal	-	√	-	-	Aerospace	03265110
	RN10400 X028D PG1X00	Pin	Gold	Horizontal	-	-	-	-	Aerospace	03265117
	RN10400 P028D HT1X00	Hooks	Tin	Horizontal	-	√	-	-	Aerospace	03265123
	RN10400 X028D PG3X00	Pin	Gold	Horizontal	M3	-	-	-	Defense	03265168
	RN10400 P028D PG4X00	Pin	Gold	Horizontal	4/40	√	-	-	Aerospace	03265215
	RN10400 X028D PG4X00	Pin	Gold	Horizontal	4/40	-	-	ASNE 024628A0	Aerospace	03266016A
	RN10400 P028D PG3X00	Pin	Gold	Horizontal	M3	√	-	-	Defense	03265203
36 VDC	RN10400 X036D PG3K00	Pin	Gold	Horizontal	M3	-	YWU	NF-62002	Railway	03265086
	RN10400 X036D PT0X00	Pin	Tin	-	-	-	-	-	Railway	03265301

Standard Offer

Coil voltage	New Part Number	Connection		Mounting		Protection	Key	Qualification	Market	P/N
		Type	Material	Flange	Screw					
48 VDC	RNH10400X048DPG3K00	Pin	Gold	Horizontal	M3	-	VUU	NF-62002	Railway	03265059
	RNH10400X048DPT0X00	Pin	Tin	-	-	-	-	-	Railway	03265303
72 VDC	RNH10400X072DPG3K00	Pin	Gold	Horizontal	M3	-	WUU	NF-62002	Railway	03265062
	RNH10400X072DPT0X00	Pin	Tin	-	-	-	-	-	Railway	03265300
110 VDC	RNH10400X110DPG3K00	Pin	Gold	Horizontal	M3	-	XUU	NF-62002	Railway	03265063
	RNH10400X110DPT0X00	Pin	Tin	-	-	-	-	-	Railway	03265370
115 VAC	RNH10400X115APG4X00	Pin	Gold	Horizontal	4/40	-	-	ASNE 0246-115B0	Aerospace	03266017A

Accessories

Soldering sockets
P/N: S326 S XX A

For wires or for PCB EN 45545

Sealed sockets
P/N: S326 E XX A
S326 E XX B
S326 E XX D

With crimp contacts 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	28 VDC	115 VAC 400 HZ	72 V
Resistive load	100,000	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 ≤ 24 A for 20 ms)	100,000	4 A	4 A	-
Lamp load (Inrush current ≤ 24 A for 20 ms)	100,000	2 A	2 A	-
Overload (resistive load)	50	40 A	60 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 90VCC max)	100	-	-	1.3 A

Coil Characteristics

Nominal operating voltage	12 VDC	24 VDC	28 VDC	36 VDC	72 VDC	110 VDC	115 VAC 400 Hz
Maximum operating voltage at +70 °C	15 V	33 V	29 V	45 V	90 V	137.5 V	130 V
Minimum operating voltage at +70 °C, coil energized at 1.15 Un during 1h	8.4 V	18.5 V	-	25.2 V	50.4 V	77 V	-
Pick up voltage at +23 °C	6.5 V	14 V	-	20.4 V	38.5 V	68 V	-
Pull in maximum voltage at +20 °C	-	-	13.5 V to 14 V	-	-	-	75 V
Pull in maximum voltage at +125 °C	-	-	19.8 V	-	-	-	100 V
Hold voltage at +20 °C	-	-	7 V	-	-	-	40 V
Hold voltage at +23 °C	3.1 V	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 V	1.5 V	-	1.6 V	4 V	6 V	-
Drop-out voltage of -65 °C to +125 °C		-	1.5 V	-	-	-	5 V
Coil resistance in Ohms ± 10% at +20 °C	70 Ω	210 Ω	290 Ω	550 Ω	2,650 Ω	5,000 Ω	3,800 Ω
Maximum back EMF (Volts) with transient suppression	-	-	± 42	-	-	-	-
Rated burden	-	-	-	-	-	-	40 mA

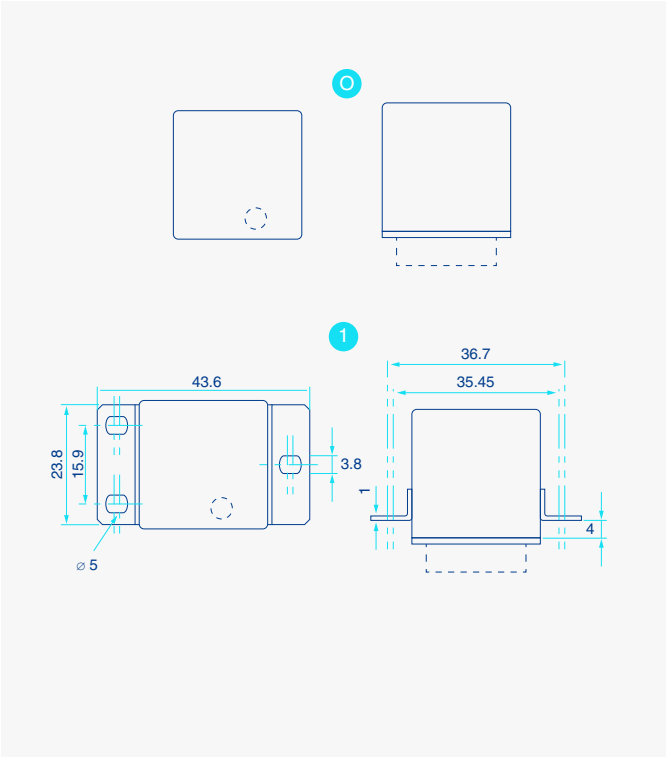
Electrical Characteristics

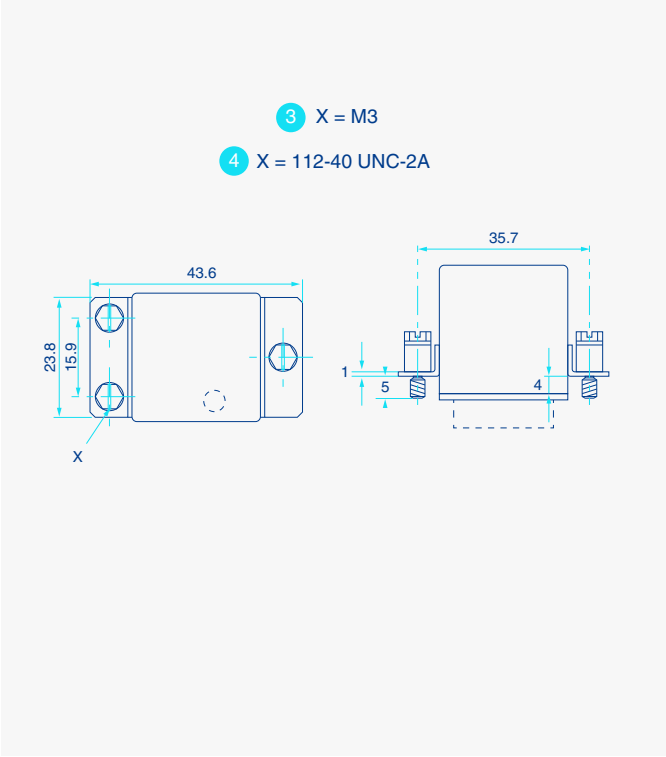
Voltage drop at nominal current (before life)	150 mV max
Voltage drop at nominal current (after rated life)	175 mV max
Operate time at nominal voltage at 25 °C (DC)	Railway: 15 ms max for DC voltage 10 ms max for DC voltage 15 ms max for AC voltage
Release time at nominal voltage at 25 °C (DC)	Railway: 15 ms max for DC voltage 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	1,250 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	Aerospace:-55 °C to +125 °C Defense: -65 °C to +125 °C Railway: -40 °C to 85 °C
Operating position	Any
Resistance against vibrations IEC 61373, Category I, Class B, Body mounted EUROCAE ED-14G / DO160G	Sinus: 30 g - 10 - 3,000 Hz Random: 0.4 g²/Hz - 50 - 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	100 g - 6 ms 1/2 sinus
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	EUROCAE ED-14G / DO160G + NF EN ISO 2685, EN 45545-2

Mountings

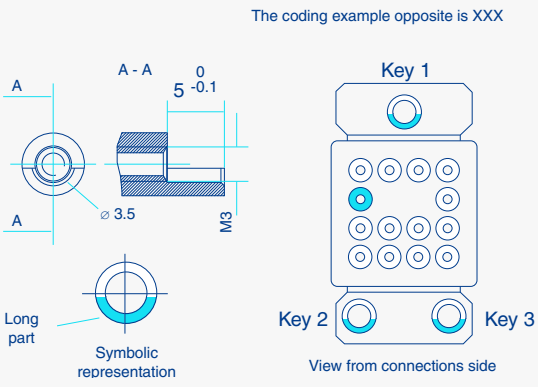




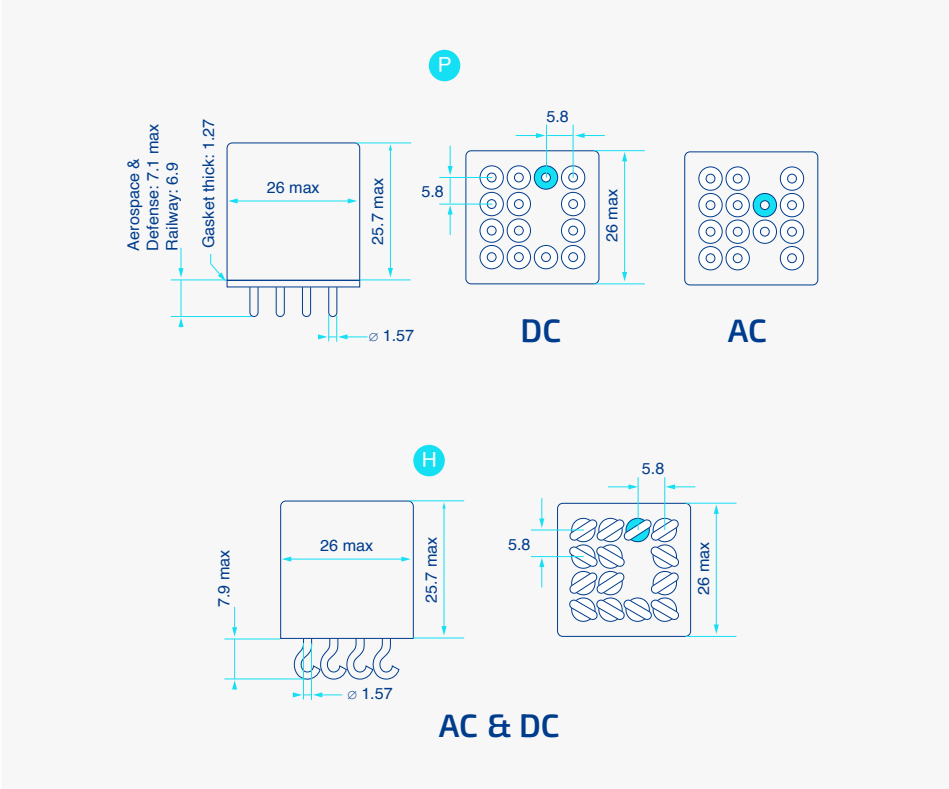
Coding keys for H mounting style

GUIDANCE CODES

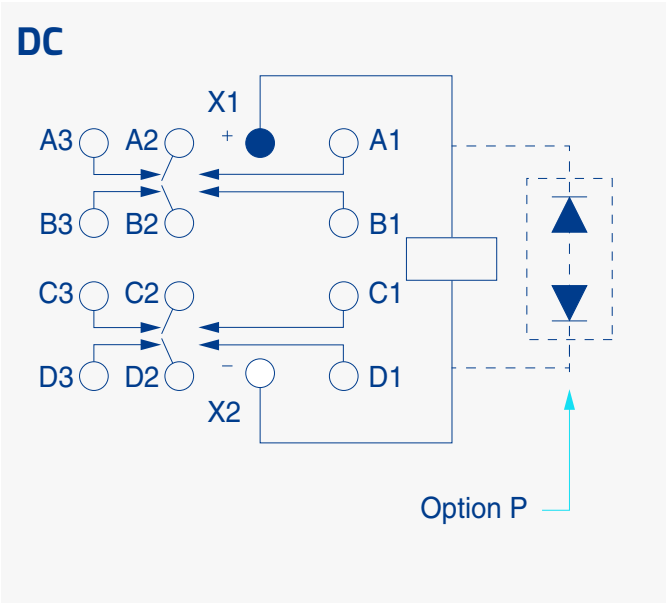
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						Key 1
						Key 2
						Key 3

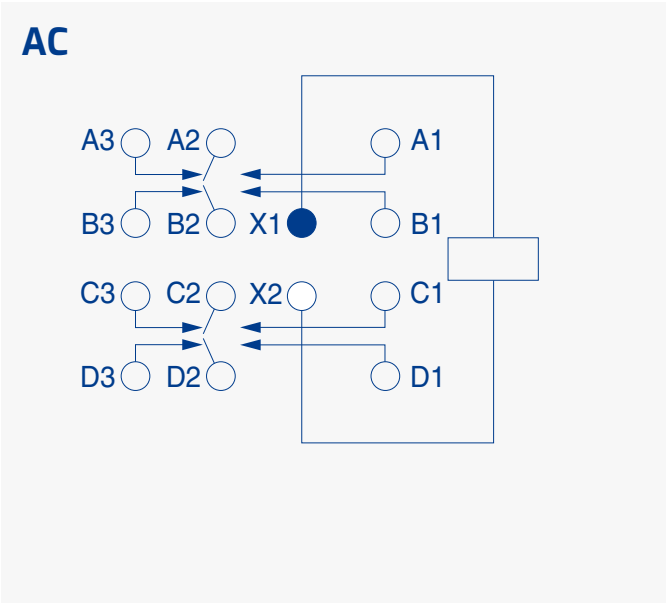


Connections



Connection Diagrams





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