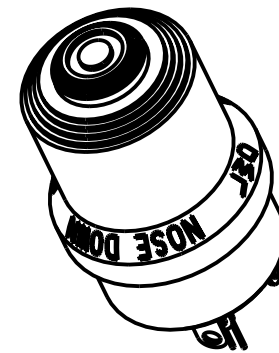


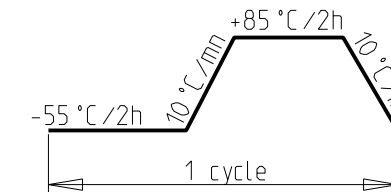
Scale 1/1



**Presentation :**  
 Function 4 ways switch tactile effect with central push button  
 Casing PA 6.6 GB 40% black  
 Plunger PA 6.6 black  
 Contacts Silver  
 Terminals Solder lugs, silver plated brass

**General characteristic :**  
 Operating temperature -55°C to +85°C  
 Storage temperature -55°C to +85°C  
 Weight 40gr max

**Thermal shock :**  
 3 cycles following the curve



**Vibrations / Chocs :**  
 In accordance with RTCA D0-160D section 8 Category H  
 Standard vibration (Paragraph 8.5.2 curve B) and  
 high level short duration vibration (Paragraph 8.6 curve R)

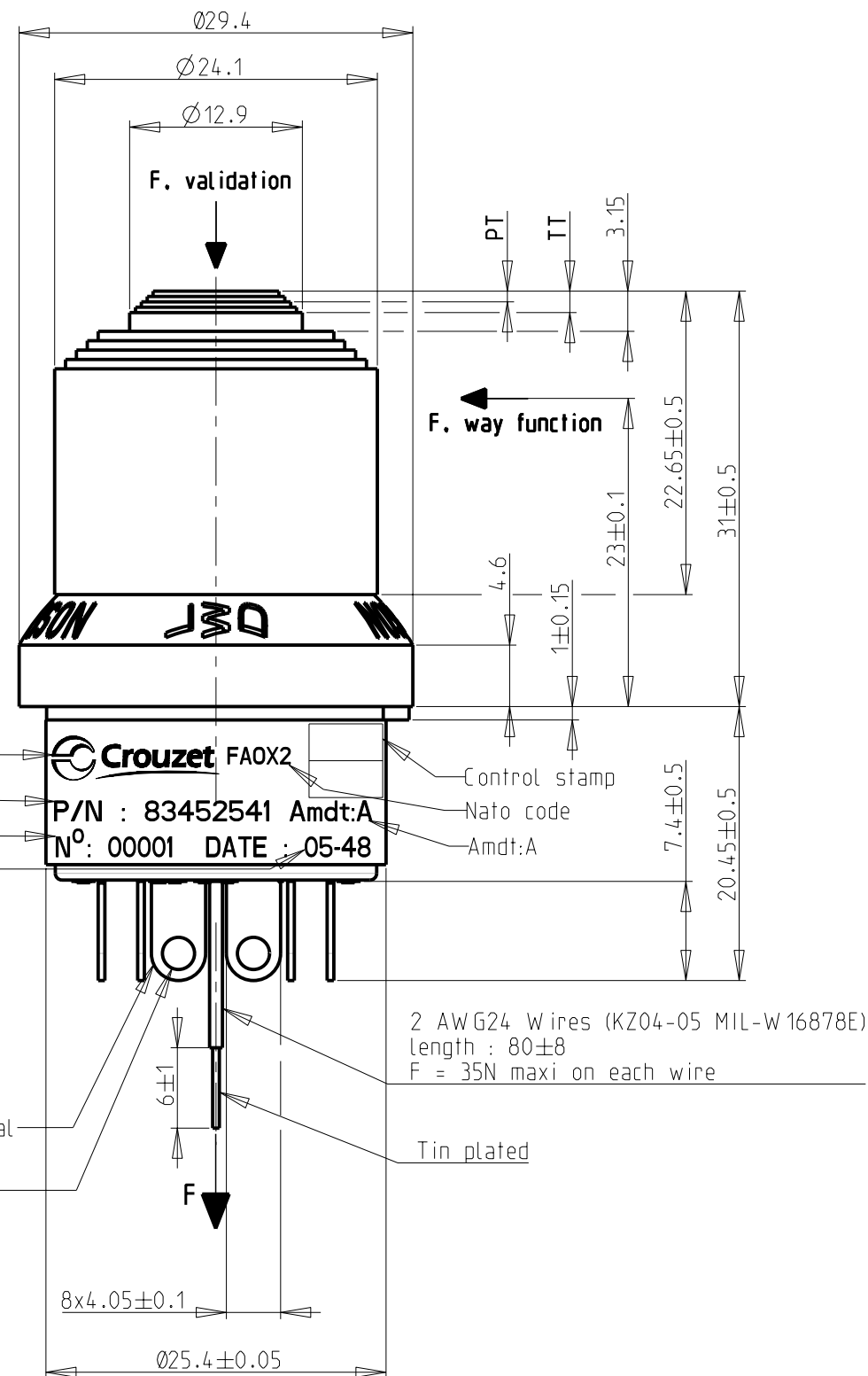
In accordance with RTCA D0-160D section 7 Category B  
 Operational shock (6g / 11ms) and Crash safety (20g / 11ms)

**Altitude :**  
 In accordance with RTCA D0-160D section 4 Category A1 :  
 15000 ft (4600m) or 571.8 mbar  
 Decompression: 8000 ft 50000ft (15240m) in 15 sec +/-10%

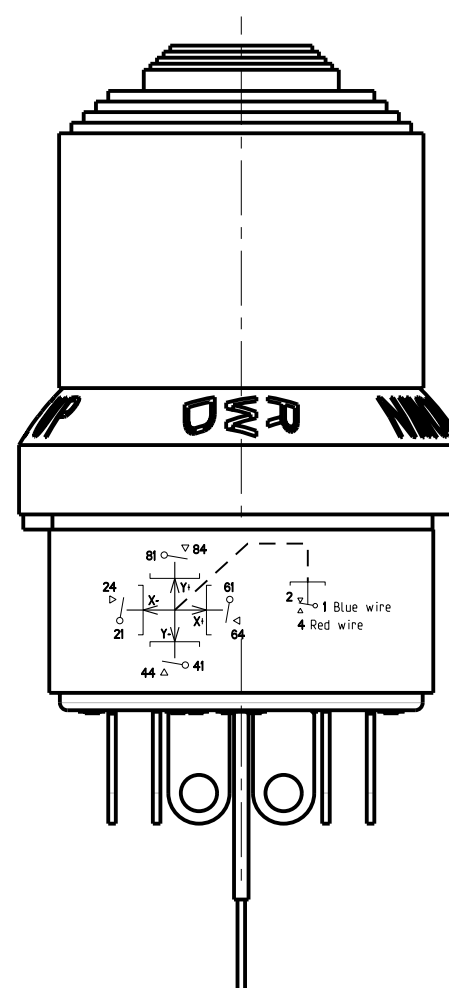
**Chemical susceptibility :**  
 Plunger and casing : according to RTCA D0-160D section 11 Category F

**Humidity / Salt spray :**  
 Not applicable

**Sealing :**  
 Unsealing product



View A



**Way function**

**Mechanical characteristics :**

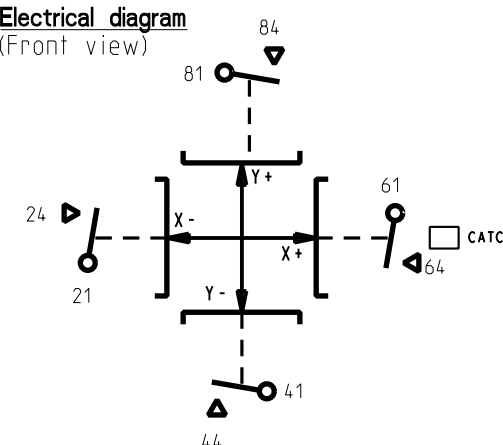
Detente action 12N±3N  
 Operating force 70N maxi  
 Permissible force at the end of travel 12' maxi (5.70mm maxi)  
 Angular total travel ATT 9°30' maxi (4.50mm maxi)  
 Angular pretravel APT 1°30' mini (0.7mm mini)  
 Angular overtravel AOT 4' mini (1.85mm mini)  
 Angular return travel ART 2.5 DaN.cm max  
 Torque on button 500 000 cycles  
 Mechanical endurance by way

**Electrical characteristics :**

Electrical endurance 100 000 Cycles  
 Dielectric strength 600Vdc 5sec @ 1mA  
 500Vdc 1min @ 1mA  
 Insulation resistance >20MΩ 500Vdc 2sec  
 >100MΩ 50Vdc 1min  
 Contact resistance First inspection and after electrical & mechanical endurance.  
 In accordance with MIL-PRF-8805

Current	30Vcc	Over Load 30Vcc/120Vac 400Hz Cos p=0.8	120Vac 400Hz Cos p=0.8	Minimum voltage
Resistif	10A	-	2A	5Vcc
Self. Inductive L/R=5ms	10A	15A 400 cycles	1A	
Minimum	0.5mA	-	0.5mA	

**Electrical diagram**  
 (Front view)



**Validation function**

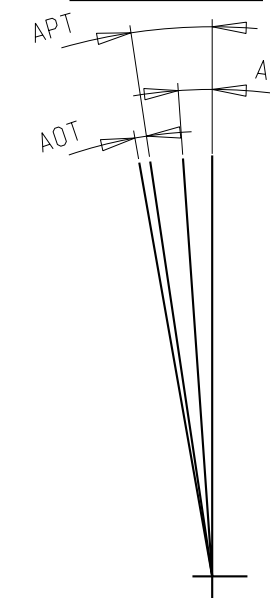
**Mechanical characteristics :**

Operating force 6N max  
 Release force 2N mini  
 Total travel TT 1.6±0.5mm  
 Pre travel PT 0.43mm mini  
 Plunger strenghtness pulling action 40N maxi  
 Plunger strenghtness pushing action 100N maxi  
 Mechanical endurance 300 000 cycles  
 (5 cycles/sec, 1mm/mn to 0.3m/sec)

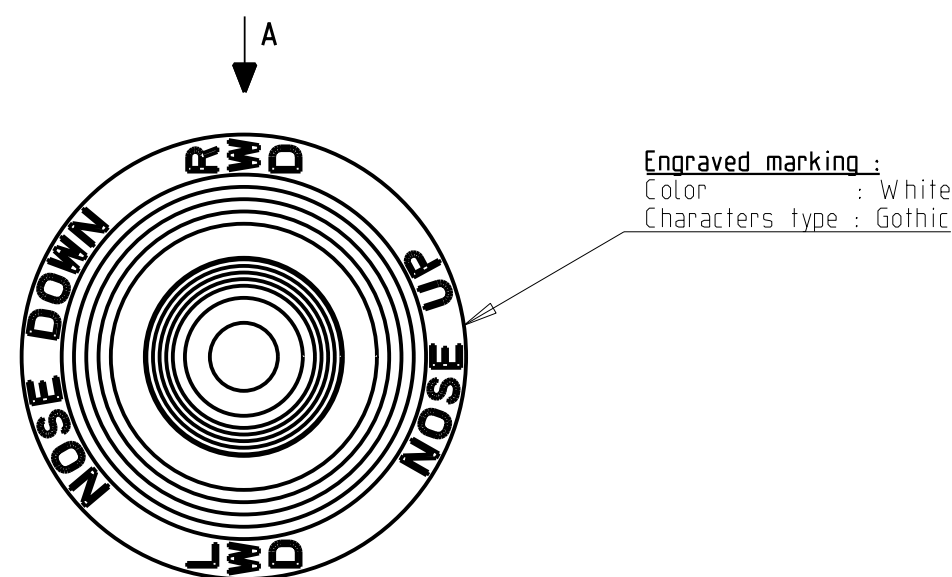
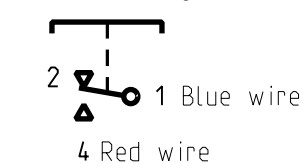
**Electrical characteristics :**

Electrical endurance 100 000 cycles 1A 30Vdc resistive load  
 Dielectric strength 600Vdc 5sec @ 1mA  
 500Vdc 1mn @ 1mA  
 Insulation resistance >20MΩ 500Vdc 2sec  
 >100MΩ 50 Vdc 1min  
 Contact resistance First inspection : R < 60mΩ @ 5V 1mA  
 After electrical endurance : In accordance with MIL-PRF-8805

**Travels schema:**



**Electrical diagram**



<b>F</b>	NL.C.T.DEF.00421.FR 4±0.15-1±0.15; 025.3±0.15->025.4±0.05;1.77-1.72 Add on laser marking:Amdt :A : add amdt:A	Modified by D_DELIAUD 08/01/2010	08/01/2010
		Verified by F_MATTANA 08/01/2010	08/01/2010
		Authorized by Non Applic.	
Toler. gene. lin ± 0.3 mm		This document is the property of Crouzet-Automatismes. It's contents cannot be reproduced or divulged without the company's written approval. The product data and specifications found on this document do not constitute any contractual obligation. Crouzet-Automatismes and its subsidiaries reserve the right to modify the specifications. All rights of reproduction, modification, reprinting, and translation reserved for all countries.	
Toler. gene. Ang ± 3 degrees		Scale 2/1	
<b>Crouzet</b>	General Raw surface Ra ✓		
2, rue du Dr ABEL BP 59, 26902, Valence CEDEX 9 France	Customer:	Customer Ref.:	
	Designation/FR:	<b>TRIM UNIPOLAIRE 4D A VALIDATION</b>	
	Designation/GB:	<b>4 WAYS TRIM SWITCH AND VALIDATION</b>	
Department: CT	Design by T_VINARD 06/10/2005	<b>DATA SHEET</b>	
	Verif. by A_BONNARD 06/10/2005	<b>FT83452541GB</b>	
NATO code: FA0X2	Authorized by Non Applic.	Index F	Format A2
		Dispatching 01	Folio 1/1