

## Comutador Rotativo c/ Chave Yale c/ Gaiola 20A



**Tipo de Proteção:** Montagem em invólucros Ex "d" ou Ex "tb", com furações M22 x 1,5.

**Marcação:** Ex d IIC Gb / Ex tb IIIC Db

**Área de Aplicação:** Zonas 1, 2, 21 e 22.

**Grau de Proteção:** IP-66.

**Temperatura de trabalho:** -50°C a 60°C.

**Rosca:** M22 x 1,5.

### TECHNICAL SPECIFICATION

TYPE OF PROTECTION	Ex "d" - Flameproof Ex "tb" - Dust ignition protection	Explosion proof Dust ignition proof	Ex "d" - Flameproof Ex "tb" - Dust ignition protection
MARKING	Ex d IIC Gb Ex tb IIIC Db	Class I, Groups B, C, D Class II, Groups E, F, G Class III	II 2 G Ex db IIC Gb II 2 D Ex tb IIIC Db
AREA OF APPLICATION	Zone 1 Zone 2 Zone 21 Zone 22	Class I, Div 1 & 2, Groups B, C, D. Class II, Div 1 & 2, Groups E, F, G. Class III	Zone 1 Zone 2 Zone 21 Zone 22
INGRESS PROTECTION	IP66W (W: salt spray)	Type 4X	IP66W (W: salt spray)
TEMPERATURE RANGE	-50°C to 60°C (-40°F to 158°F)	-50°C to 60°C (-40°F to 158°F)	-50°C to 60°C (-40°F to 158°F)
THREAD SIZE	M22 x 1,5 3/4" NPSM	M22 x 1,5 3/4" NPSM	M22 x 1,5 3/4" NPSM
THREAD LENGTH	25mm (Normal) 40mm (Long) 57mm (Extra Long)	25mm (Normal) 40mm (Long) 57mm (Extra Long)	25mm (Normal) 40mm (Long) 57mm (Extra Long)
INSTALLATION	for M22x1,5 THREAD in Ex "d" enclosures: (min. wall thickness : 8 mm engaged thread) in Ex "tb" enclosures: (min. wall thickness : 3 mm engaged thread) for 3/4" NPSM THREAD in Ex "d" enclosures: (min. 5 fully engaged threads) in Ex "tb" enclosures: (min. wall thickness : 3.7 mm engaged thread)	for M22x1,5 THREAD in Ex "d" enclosures: min. 7 fully engaged threads. in Ex "tb" enclosures: (min. wall thickness : 3 mm engaged thread) for 3/4" NPSM THREAD in Ex "d" enclosures: (min. 7 fully engaged threads) in Ex "tb" enclosures: (min. wall thickness : 3 mm engaged thread)	for M22x1,5 THREAD in Ex "d" enclosures: (min. wall thickness : 8 mm engaged thread) in Ex "tb" enclosures: (min. wall thickness : 3 mm engaged thread) for 3/4" NPSM THREAD in Ex "d" enclosures: (min. 5 fully engaged threads) in Ex "tb" enclosures: (min. wall thickness : 3.7 mm engaged thread)
CERTIFICATE OF COMPLIANCE	 <b>INMETRO</b> CEPEL 97.0007U	 <b>CSA</b> I <b>UL</b> CSA: 2719982 UL: E489210	  <b>ATEX</b>   <b>IECEX</b> Sira 16ATEX1176U IECEX CSA 16.0032U

### ELECTRICAL SPECIFICATION

BREAKING CAPACITY for AC		RATED CURRENT 20A	BREAKING CAPACITY for DC		RATED CURRENT 20A		
AC-3	220V-240V	3.0 kW	RESISTIVE LOADS T<1ms	24V	110V		
	380V-440V	5.5 kW		48V	60V		
AC-15	220V-240V	5 A		120V	110V		
	380V-440V	4 A		20A	12 A	4.5A	1 A
AC-22A	220V-240V	20 A	INDUCTIVE LOADS T= 50ms	12A	2A	1A	0.4A
	380V-440V	20 A					
AC-23A	220V-240V	3.7 kW					
	380V-440V	7.5 kW					

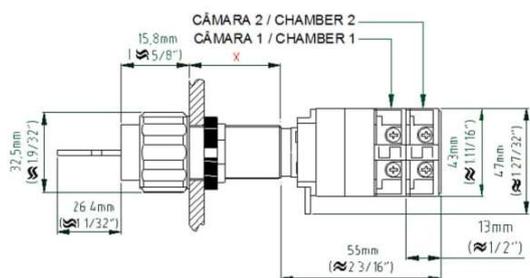
  

<b>RATED VOLTAGE</b>	690V
<b>RATED CURRENT</b>	20A
<b>SWITCHING ANGLES</b>	45°, 90°
<b>TERMINALS</b>	2 x 2,5mm <sup>2</sup>
<b>MAX. N° CONTACT CHAMBERS</b>	6

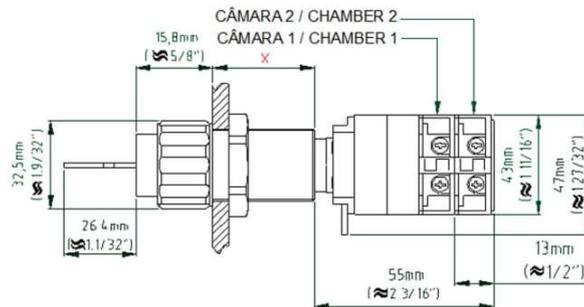
**4 DIMENSIONS**

M22 x 1,5

3/4" NPSM



X	
(mm)	(inch)
25mm	≈ 1"
40mm	≈ 1.19/32"
57mm	≈ 2.1/4"



EX**X**GCCC **A** + **B**(B.1+B.2) + 20

**X** THREAD SIZE

X	
CODE	SIZE
22	M22x1,5
26	3/4"NPSM

**A** THREAD LENGTH



A	
CODE	SIZE
N	25mm
L	40mm
X	57mm

**B** SWITCH FUNCTION

**EXAMPLE 1:**

SWITCH FUNCTION	ON/OFF POSITIONS Angle Comutation: 90°	DOUBLE-THROW WITHOUT OFF POSITION Angle Comutation: 90°	DOUBLE-THROW WITH OFF POSITION Angle Comutation: 45°	SELECTOR WITHOUT OFF POSITION Angle Comutation: 45°	SELECTOR WITH OFF POSITION Angle Comutation: 45°
CODE	IN	RS	RC	SS	SC
<b>B.1</b> POLE N°	1 POLE	1 POLE	1 POLE	1 POLE	1 POLE
POLE N° CODE	1	1	1	1	1
<b>B.2</b> POSITION N°	2 POSITIONS	2 POSITONS	3 POSITIONS	3 POSITIONS	3 POSITIONS
POSIT. N° CODE	2	2	3	3	3

