



TV12H 235-20Z

- 1 Cable entry M 20 x 1.5
- Metal enclosure
- Wide range of alternative actuators
- Good resistance to oil and petroleum spirit
- 30 mm x 63,5 mm x 30 mm
- Actuator heads can be repositioned by 4 x 90°
- Mounting details to EN 50047
- Lever angle adjustable in 10° steps

Data

Ordering data

Product type description	TV12H 235-20Z
Article number (order number)	151091580

Approvals - Standards

Certificates	cULus
	CCC
	EAC

General data

Standards	BG-GS-ET-15 EN ISO 13849-1 EN IEC 60947-5-1
Housing construction form	Norm construction design
Actuator type to DIN EN 50047	A
Enclosure material	Metal, zinc die-cast
Material of the contacts, electrical	Silver
Lever material	Metal film

Gross weight	200 g
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General data - Features

Number of auxiliary contacts	2
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Safety classification

Standards	EN ISO 13849-1
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Mission time	20 Year(s)
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Mechanical data

Actuating element	Roller lever
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Roller material	Plastic
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Mechanical life, minimum	20,000,000 Operations
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Actuating speed, minimum	4,122 mm/min
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Actuating speed, maximum	1 m/s
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Note (Actuating speed)	Actuating speed with actuating angle 30° to switch axis
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Note Bounce duration	Bounce duration in accordance with actuating speed
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Note (Switchover time)	Switchover time in accordance with actuating speed
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Actuating torque, minimum	0.2 Nm
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Positive break torque	0.2 Nm
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Mechanical data - Connection technique

Termination	Screw terminals M20 x 1.5
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Cable section, minimum	0.75 mm ²
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Cable section, maximum	2.5 mm ²
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Note (Cable section)	All indications including the conductor ferrules.
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Mechanical data - Dimensions

Length of sensor	46 mm
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Width of sensor	30 mm
Height of sensor	110.5 mm

Ambient conditions

Degree of protection	IP67 IP65
Ambient temperature, minimum	-30 °C
Ambient temperature, maximum	+80 °C

Ambient conditions - Insulation values

Rated insulation voltage U_i	500 V
Rated impulse withstand voltage U_{imp}	6 kV

Electrical data

Thermal test current	10 A
Required rated short-circuit current to EN 60947-5-1	1,000 A
Utilisation category AC-15	230 VAC
Utilisation category AC-15	4 A
Utilisation category DC-13	24 VDC
Utilisation category DC-13	1 A
Switching element	Normally open contact (NO)
Switching principle	Slow action
Switching frequency	5,000 /h

Note

Note (General)	Switch with 2 NO contacts are not for security tasks
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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

Generated on: 26/08/2022, 12:41