



TV12H 255-20ZH

- 3 cable entries M 20 x 1.5
- Metal enclosure
- Wide range of alternative actuators
- Good resistance to oil and petroleum spirit
- 63 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

eCl@ss number, Version 9.0	27-27-06-01
eCl@ss number, Version 11.0	27-27-06-01
ETIM number, version 6.0	EC000030
ETIM number, version 7.0	EC000030

General data

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

Roller material	Plastic
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General data - Features

Number of auxiliary contacts	2
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Safety appraisal

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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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

Terminal Connector	Screw connection
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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 about the cable section are including the conductor ferrules.
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Mechanical data - Dimensions

Length of sensor	46 mm
Width of sensor	63 mm
Height of sensor	110.5 mm

Ambient conditions

Degree of protection	IP65 to EN 60529 IP67 to EN 60529
Ambient temperature, minimum	-30 °C
Ambient temperature, maximum	+80 °C

Ambient conditions - Insulation value

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 with staggered contacts
Switching frequency	5,000 /h

Notes

Note (General)	Switch with 2 NO contacts are not for security tasks
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can be found in the manual. Technical amendments and errors possible.

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