



T1R 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

Data

Ordering data

Product type description	T1R 235-20Z
Article number (order number)	151136900

Approvals - Standards

Certificates	cULus CCC EAC
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General data

Standards	BG-GS-ET-15 EN ISO 13849-1 EN IEC 60947-5-1
Housing construction form	Norm construction design
Enclosure material	Metal, zinc die-cast
Material of the contacts, electrical	Silver
Gross weight	150 g

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	Offset roller lever
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Mechanical life, minimum	20,000,000 Operations
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Actuating force, minimum	9 N
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Positive break force, minimum	19 N
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Actuating speed, minimum	160 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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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	30 mm
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Width of sensor	30 mm
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Height of sensor	91.5 mm
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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.

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