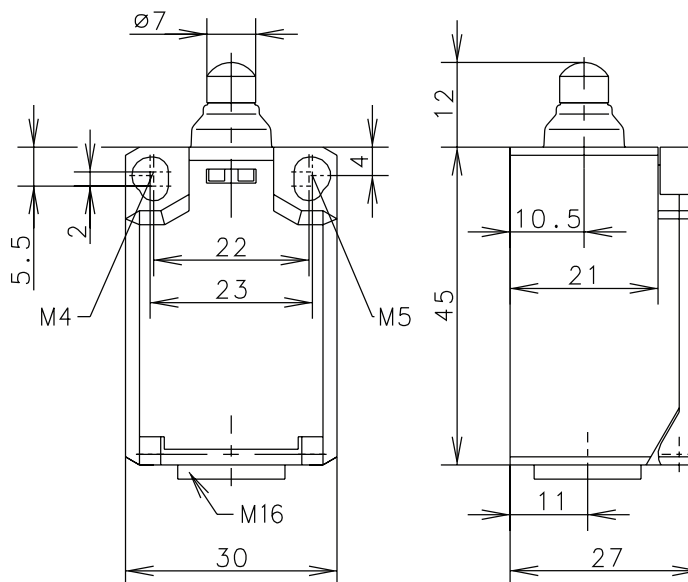


Ti2 Series



Recommended use

Ideal for safety applications and position monitoring in confined spaces with an IP65 protection rating.

Product advantages

- Compact IP65 switch for safety applications
- Optimized size with a tried-and-tested connection system
- Two-channel safety monitoring possible
- With captive snap-on cover
- 2 mm contact opening width of slow-action system conforming to EN 81-1 for lift construction
- Small hysteresis in snap action system
- Actuator can be repositioned by 4 x 90°

Options

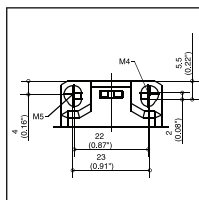
- Available with M12 connector
- AS interface variants available
- Preassembled with customer-specific cables and connectors on request

Design layout

- Slow-action and snap-action contacts
- Versions: 1 NC/1NO, 2 NC, 2 NO
- All NC contacts with $\ominus$ in the circuit diagram are positively opening contacts
- Type: Zb (galvanically isolated change-over contact)

Mounting

- Mounting dimensions conforming to DIN EN 50047
- 2 slots for adjustment with M4 screws (distance between centers 22 mm)



- Fixed positioning for safety applications with two M5 screws (distance between centers 23 mm)

Installation advantages

- Snap-on cover can be released with screwdriver
- Cover protects switching element during installation
- Screw connections with clamping plates
- Transparent cover for adjustment and visual inspection
- Easy to install cover lock (close and press)

Technical data

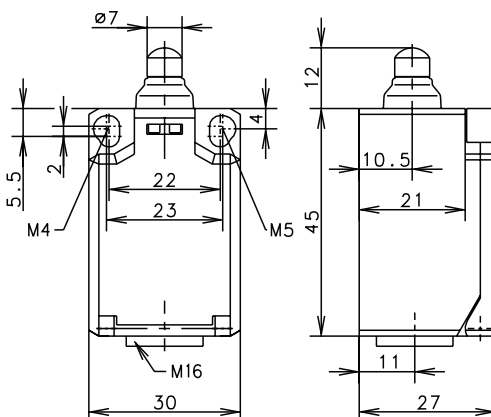
Electrical data		
Rated insulation voltage	U_i max.	240 V AC
Conventional thermal current	I_{the}	10 A
Rated operating voltage	U_e max.	240 V
Utilization category	U_e/I_e	AC-15, U_e/I_e 240 V/3 A; DC-13, U_e/I_e 240 V/0,27 A
Short-circuit protection		Fuse 6 A gL/gG
Protection class		II, Insulated
Mechanical data		
Enclosure material		Thermoplastic, glass fibre-reinforced (UL 94-V0)
Ambient temperature		-30 °C to +80 °C
Mechanical service life		3 x 10 ⁶ switching cycles
B10d		6 Mio.
Switching frequency		≤ 100/min.
Type of connection		Screw connections
Conductor cross sections		Single-wire 0.5 - 1.5 mm ² or Stranded wire with ferrule 0.5 - 1.5 mm ²
Cable entry		1 x M16 x 1,5
Protection class		IP65 conforming to EN 60529; DIN VDE 0470 T1
Standards		
VDE 0660 T100, DIN EN 60947-1, IEC 60947-1/VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1		

Drawing dimensions in mm

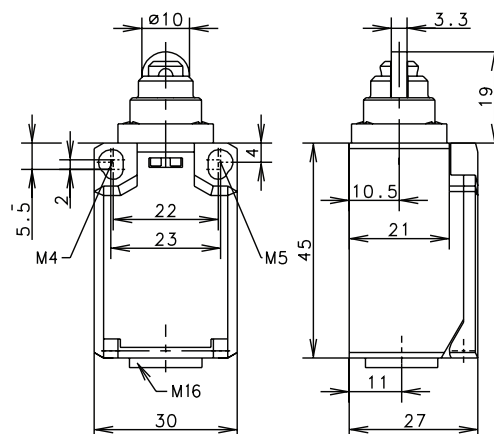
Ti2 Series

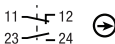
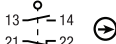
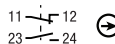
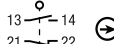
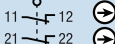
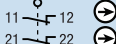
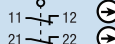
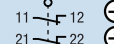
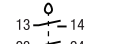
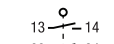


W (Form B)



RIW (Form C)



Switching Operation	Slow Action	Snap Action	Slow Action	Snap Action
1 NC / 1 NO Contacts	608.8103.001 TI2-U1Z W 	608.8153.002 TI2-SU1Z W 	608.8117.007 TI2-U1Z RIW 	608.8167.008 TI2-SU1Z RIW 
2 NC Contacts	608.8803.003 TI2-A2Z W 	608.8853.004 TI2-SA2Z W 	608.8817.009 TI2-A2Z RIW 	608.8867.010 TI2-SA2Z RIW 
2 NO Contacts	608.8803.005 TI2-E2 W 			608.8867.012 TI2-SE2 RIW 
1 NC / 1 NO Contacts Overlapping	-	-	-	-

Technical Information

	Slow Action	Snap Action	Slow Action	Snap Action
Maximum Switching Voltage	240V	240V	240V	240V
Maximum Switching Amperage	10A	10A	10A	10A
B10d	6 Million	6 Million	6 Million	6 Million
Mechanical Service Life	3 x 10 ⁶	3 x 10 ⁶	3 x 10 ⁶	3 x 10 ⁶
Switching Frequency	≤ 100/min	≤ 100/min	≤ 100/min	≤ 100/min
Operating Temperature	-30 °C to +80 °C	-30 °C to +80 °C	-30 °C to +80 °C	-30 °C to +80 °C
Protection Rating	IP65	IP65	IP65	IP65
Utilization Category	AC-15, Ue/Ue 240V 3A	AC-15, Ue/Ue 240V 3A	AC-15, Ue/Ue 240V 3A	AC-15, Ue/Ue 240V 3A
Rate Insulation Voltage	240VAC	240VAC	240VAC	240VAC
Approvals				

Special features / variants

- Available with greater switching force

Special features / variants

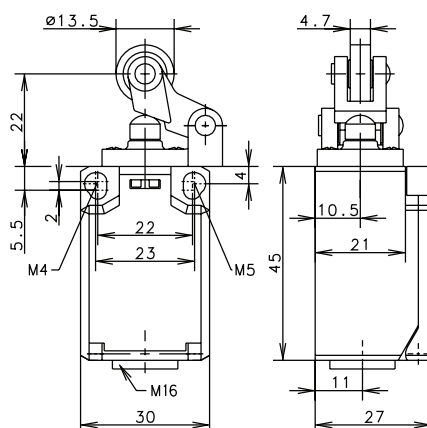
- Available with greater switching force
- Available different actuator direction
- Activation direction can not be rotated by user

Drawing dimensions in mm

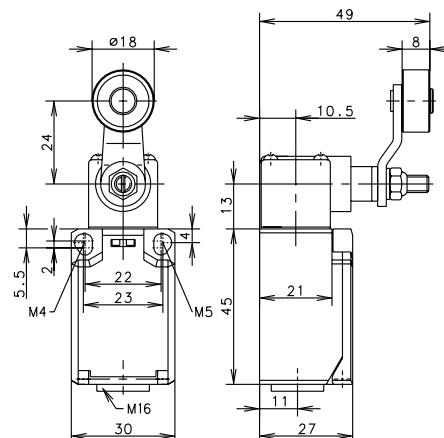
Ti2 Series



HW (Form E)



AH (Form A)

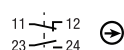


Switching Operation

1 NC / 1 NO Contacts

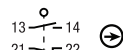
Slow Action

608.8121.015
TI2-U1Z HW



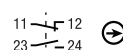
Snap Action

608.8171.016
TI2-SU1Z HW



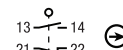
Slow Action

608.8135.021
TI2-U1Z AH



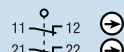
Snap Action

608.8185.022
TI2-SU1Z AH

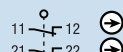


2 NC Contacts

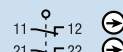
608.8821.017
TI2-A2Z HW



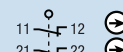
608.8871.018
TI2-SA2Z HW



608.8835.023
TI2-A2Z AH



608.8885.024
TI2-SA2Z AH



2 NO Contacts

-

608.8871.020
TI2-SE2 HW



-

-

1 NC / 1 NO Contacts Overlapping

-

-

-

-

Replacement actuator:

391.8191.547

391.8351.166

Technical Information

	Slow Action	Snap Action
Maximum Switching Voltage	240V	240V
Maximum Switching Amperage	10A	10A
B10d	6 Million	6 Million
Mechanical Service Life	3 x 10 ⁶	3 x 10 ⁶
Switching Frequency	≤ 100/min	≤ 100/min
Operating Temperature	-30 °C to +80 °C	-30 °C to +80 °C
Protection Rating	IP65	IP65
Utilization Category	AC-15, Ue/Ue 240V 3A	AC-15, Ue/Ue 240V 3A
Rate Insulation Voltage	240VAC	240VAC
Approvals		



Special features/variants (on request)

- Available with different actuating directions
- With steel roller
- Various roller diameters

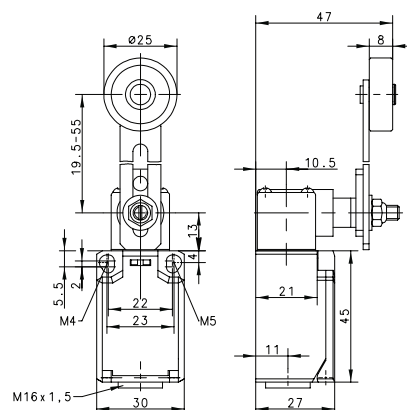
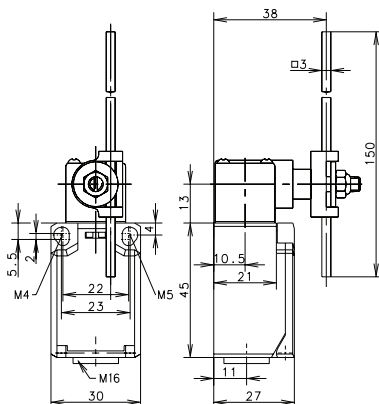
	Slow Action	Snap Action
Maximum Switching Voltage	240V	240V
Maximum Switching Amperage	10A	10A
B10d	6 Million	6 Million
Mechanical Service Life	3 x 10 ⁶	3 x 10 ⁶
Switching Frequency	≤ 100/min	≤ 100/min
Operating Temperature	-30 °C to +80 °C	-30 °C to +80 °C
Protection Rating	IP65	IP65
Utilization Category	AC-15, Ue/Ue 240V 3A	AC-15, Ue/Ue 240V 3A
Rate Insulation Voltage	240VAC	240VAC



Special features/variants (on request)

- Available with different actuating directions
- With steel roller
- Various roller diameters
- Offset or straight lever
- Various lever lengths
- With roller over switch

Drawing dimensions in mm

AV

240V	240V
10A	10A
6 Million	6 Million
3×10^6	3×10^6
≤ 100/min	≤ 100/min
-30 °C to +80 °C	-30 °C to +80 °C
IP65	IP65
AC-15, Ue/Ue 240V 3A	AC-15, Ue/Ue 240V 3A
240VAC	240VAC



- Available with different actuator directions
- Various roller diameters & lever lengths
- With roller over switch

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[618.8117.059](#) [618.8137.004](#) [618.8137.005](#) [618.8137.071](#) [618.8100.030](#) [618.8103.043](#) [618.8103.068](#)