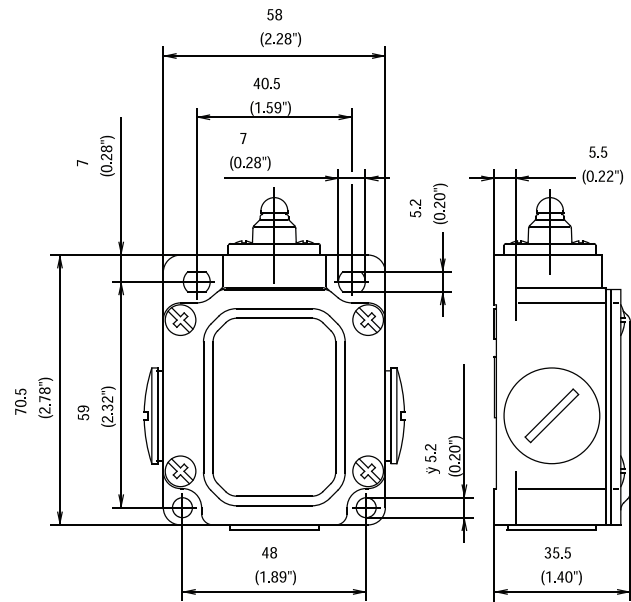


## SN2 Series



### Recommended use

With its three cable entries and large connection area, the SN2 limit switch is an ideal solution for series-wiring or branch circuits. The rugged metal body is designed to provide safety or position monitoring in harsh environments.

### Product advantages

- Protection class IP65 to VDE 0470 T1
- Enclosure: Aluminum pressure die-casting
- Cover: Sheet aluminum
- Actuator can be repositioned by 4 x 90°
- Cable entry 3x M20 x 1.5
- Connection designation conforming to DIN EN 50013
- Metal actuators for high loads
- Graduated adjustment of AH lever
- Selectable direction-dependent contact-making of AH actuator (basic setting: contact-making both sides)

### Options

- AS interface versions on request
- Preassembled with customer-specific cables and connectors on request

### Design layout

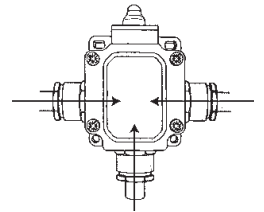
- Slow-action and snap-action contacts
- Versions: 1 NC / 1NO, 2 NC
- All NC contacts with  in the circuit diagram are positively opening contacts
- Type: Zb (galvanically isolated changeover contact)
- Latching function on request

### Mounting

- 2 adjustment slots for M5 screws
- 2 addition holes for M5 mounting screws in safety applications

### Installation advantages

- 3 cable entries for through-wiring
- Large internal connection space
- Screw connections with clamping plates
- Easy-to-change switching system thanks to snap-in retainer
- Finely adjustable switching point with adjusting screw



### Technical data

| Electrical data                               |                                                                                                  |          |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------|----------|
| Rated insulation voltage                      | U <sub>i</sub> max.                                                                              | 400 V AC |
| Conventional thermal current                  | I <sub>the</sub>                                                                                 | 10 A     |
| Rated operating voltage                       | U <sub>e</sub> max.                                                                              | 240 V    |
| Utilization category                          | AC-15, A300, U <sub>e</sub> /I <sub>e</sub> 240 V/3 A                                            |          |
| Short-circuit protection (up to) <sup>1</sup> | Fuse 10 A gL/gG                                                                                  |          |
| Protection class                              | I                                                                                                |          |
|                                               |                                                                                                  |          |
| Mechanical data                               |                                                                                                  |          |
| Enclosure material                            | Aluminum pressure die-casting                                                                    |          |
| Ambient temperature                           | -30 °C to +80 °C                                                                                 |          |
| Mechanical service life                       | 10 x 10 <sup>6</sup> switching cycles                                                            |          |
| B10d (up to) <sup>1</sup>                     | 20 Mill.                                                                                         |          |
| Switching frequency                           | max. 100/min.                                                                                    |          |
| Type of connection                            | Screw connections                                                                                |          |
| Conductor cross sections                      | Single-wire 0.5 - 1.5 mm <sup>2</sup> or<br>Stranded wire with ferrule 0.5 – 1.5 mm <sup>2</sup> |          |
| Cable entry                                   | 3 x M20 x 1.5                                                                                    |          |
| Protection class                              | IP65 conforming to EN 60529, DIN VDE 0470 T1                                                     |          |
|                                               |                                                                                                  |          |
| Standards                                     |                                                                                                  |          |
| conforming to EN 60947-1: EN 60947-5-1        |                                                                                                  |          |

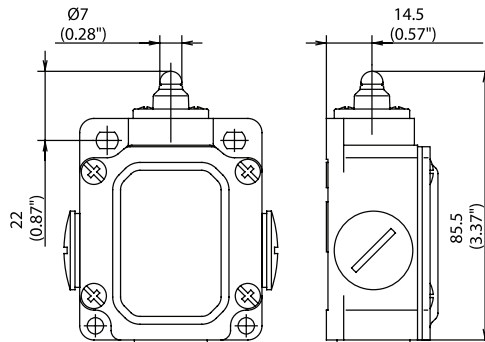
<sup>1</sup> Depending on switching system. See Table in Technical Section.

Dimensions shown in mm.

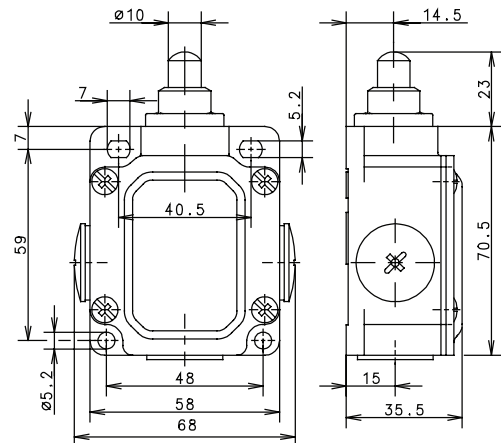
## SN2 Series



**W**



**LIW**

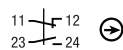


### Switching Operation

**1 NC / 1 NO Contacts**

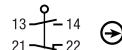
**Slow Action**

**603.3103.023**  
SN2-U1ZW



**Snap Action**

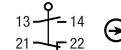
**603.3353.016**  
SN2-SU1ZW



**Slow Action**

**Snap Action**

**603.3194.022**  
SN2-SU1LIW



**2 NC Contacts**

-

-

-

-

**2 NO Contacts**

-

-

-

-

**1 NC / 1 NO Contacts  
Overlapping**

-

-

-

-

**Replacement actuator:**

**391.3030.537**

**391.2440.536**

### Technical Information

|                                  | Slow Action          | Snap Action          |
|----------------------------------|----------------------|----------------------|
| Maximum Switching Voltage        | 240V                 | 240V                 |
| Max. Switching Amps (up to)*     | 10A                  | 10A                  |
| B10d (up to)*                    | 20 Million           | 20 Million           |
| Mechanical Service Life (up to)* | 10 x 10 <sup>6</sup> | 10 x 10 <sup>6</sup> |
| Switching Frequency              | ≤ 100/min            | ≤ 100/min            |
| Operating Temperature            | -30 °C to +80 °C     | -30 °C to +80 °C     |
| Protection Rating                | IP65                 | IP65                 |
| Utilization Category (up to)*    | AC-15, Ue/Ue 240V 3A | AC-15, Ue/Ue 240V 3A |
| Rate Insulation Voltage          | 400VAC               | 400VAC               |

Approvals



|                                  | Slow Action          | Snap Action          |
|----------------------------------|----------------------|----------------------|
| Maximum Switching Voltage        | 240V                 | 240V                 |
| Max. Switching Amps (up to)*     | 10A                  | 10A                  |
| B10d (up to)*                    | 20 Million           | 20 Million           |
| Mechanical Service Life (up to)* | 10 x 10 <sup>6</sup> | 10 x 10 <sup>6</sup> |
| Switching Frequency              | ≤ 100/min            | ≤ 100/min            |
| Operating Temperature            | -30 °C to +80 °C     | -30 °C to +80 °C     |
| Protection Rating                | IP65                 | IP65                 |
| Utilization Category (up to)*    | AC-15, Ue/Ue 240V 3A | AC-15, Ue/Ue 240V 3A |
| Rate Insulation Voltage          | 400VAC               | 400VAC               |



**Special features/variants** (on request)

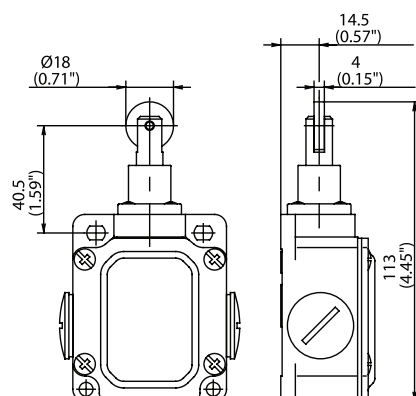
- Telescopic plunger, very long actuation travel of 9 mm

*Drawing dimensions in mm*

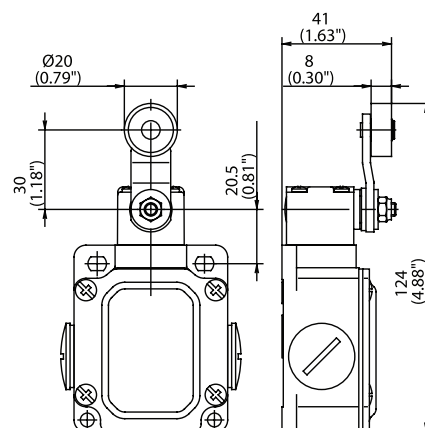
## SN2 Series



### RIW



### AHS

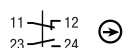


#### Switching Operation

##### 1 NC / 1 NO Contacts

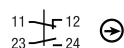
#### Slow Action

**603.3117.025**  
SN2-U1Z RIW



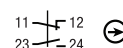
#### Snap Action

**603.3367.017**  
SN2-SU1Z RIW



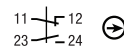
#### Slow Action

**603.3135.002**  
SN2-U1Z AHS



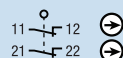
#### Snap Action

**603.3385.018**  
SN2-SU1Z AHS



##### 2 NC Contacts

**603.3818.038**  
SN2-A2Z RIW



-  
-

-  
-

-  
-

##### 2 NO Contacts

-  
-

-  
-

-  
-

-  
-

##### 1 NC / 1 NO Contacts Overlapping

-  
-

-  
-

-  
-

-  
-

#### Replacement actuator:

**391.8170.587**

**391.3351.913**

#### Technical Information

#### Slow Action

#### Snap Action

Maximum Switching Voltage

240V

240V

Max. Switching Amps (up to)\*

10A

10A

B10d (up to)\*

20 Million

20 Million

Mechanical Service Life (up to)\*

3 x 10<sup>6</sup>

10 x 10<sup>6</sup>

Switching Frequency

≤ 100/min

≤ 100/min

Operating Temperature

-30 °C to +80 °C

-30 °C to +80 °C

Protection Rating

IP65

IP65

Utilization Category (up to)\*

AC-15, Ue/Ue 240V 3A

AC-15, Ue/Ue 240V 3A

Rate Insulation Voltage

400VAC

400VAC

Approvals



#### Special features/variants (on request)

- Available with different actuating directions
- With latching function

#### Special features/variants (on request)

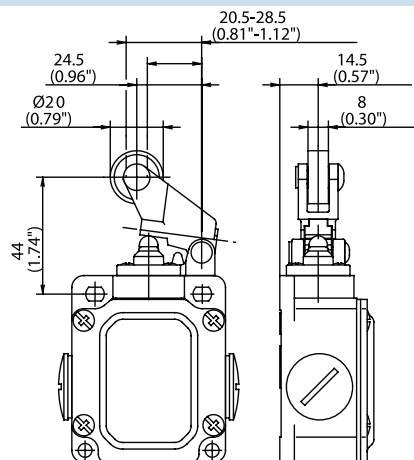
- Available with different actuating directions

Drawing dimensions in mm

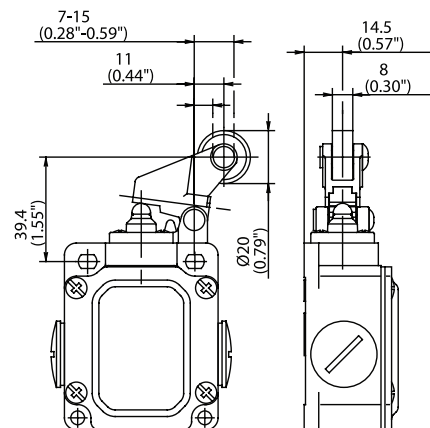
## SN2 Series



### DGHW



### DGKW

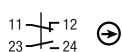


#### Switching Operation

##### 1 NC / 1 NO Contacts

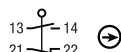
#### Slow Action

**603.3121.005**  
SN2-U1Z DGHW



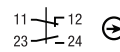
#### Snap Action

**603.3371.004**  
SN2-SU1Z DGHW



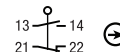
#### Slow Action

**603.3127.010**  
SN2-U1Z DGKW



#### Snap Action

**603.3377.011**  
SN2-SU1Z DGKW



##### 2 NC Contacts

-

-

-

-

##### 2 NO Contacts

-

-

-

-

##### 1 NC / 1 NO Contacts Overlapping

-

-

-

-

#### Replacement actuator:

**391.8211.656**

**391.8271.655**

#### Technical Information

#### Slow Action

#### Snap Action

Maximum Switching Voltage

240V

240V

Max. Switching Amps (up to)\*

10A

10A

B10d (up to)\*

20 Million

20 Million

Mechanical Service Life (up to)\*

10 x 10<sup>6</sup>

10 x 10<sup>6</sup>

Switching Frequency

≤ 100/min

≤ 100/min

Operating Temperature

-30 °C to +80 °C

-30 °C to +80 °C

Protection Rating

IP65

IP65

Utilization Category (up to)\*

AC-15, Ue/Ue 240V 3A

AC-15, Ue/Ue 240V 3A

Rate Insulation Voltage

400VAC

400VAC

Approvals

\* Depending on switching system - see technical information for details



#### Special features/variants (on request)

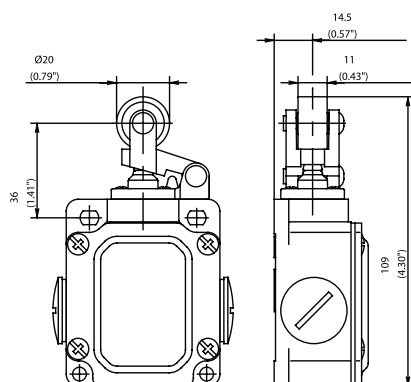
- Telescopic plunger, very long actuation travel of 9 mm

Drawing dimensions in mm

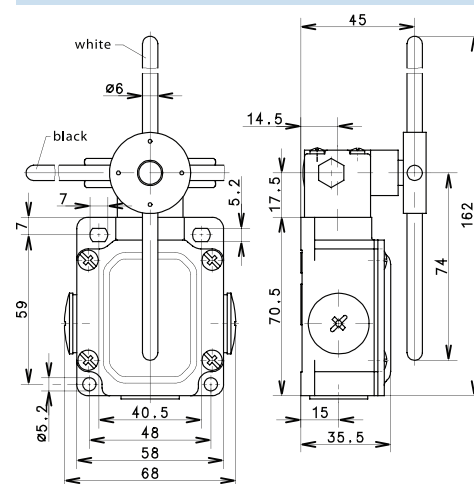
## SN2 Series



### HW



### AD4K

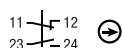


#### Switching Operation

**1 NC / 1 NO Contacts**

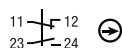
#### Slow Action

**603.3121.007**  
SN2-U1Z HW



#### Snap Action

**603.3371.006**  
SN2-SU1Z HW

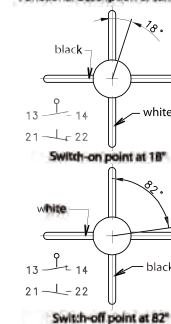


#### Slow Action

#### Snap Action

**613.3887.022**  
SN2-SA2Z AD4K

Functional description of turnstile



**2 NC Contacts**

-

-

-

**2 NO Contacts**

-

-

-

**1 NC / 1 NO Contacts Overlapping**

-

-

-

**Replacement actuator:**

**391.3210.553**

#### Technical Information

#### Slow Action

#### Snap Action

Maximum Switching Voltage

240V

240V

Max. Switching Amps (up to)\*

10A

10A

B10d (up to)\*

20 Million

20 Million

Mechanical Service Life (up to)\*

3 x 10<sup>6</sup>

10 x 10<sup>6</sup>

Switching Frequency

≤ 100/min

≤ 100/min

Operating Temperature

-30 °C to +80 °C

-30 °C to +80 °C

Protection Rating

IP65

IP65

Utilization Category (up to)\*

AC-15, Ue/Ue 240V 3A

AC-15, Ue/Ue 240V 3A

Rate Insulation Voltage

400VAC

400VAC

Approvals

\* Depending on switching system - see technical information for details



#### Special features/variants (on request)

- Available with different actuating directions

Drawing dimensions in mm

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