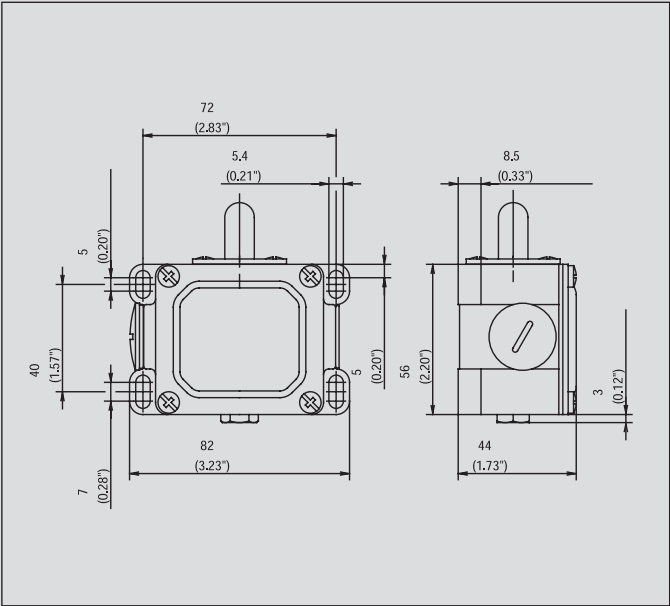


# Metal-Enclosed Limit Switches

## D



### Recommended use

Heavy duty enclosure for harsh operating conditions with particularly tough design of actuator and switching systems.

### Product advantages

- Protection class IP 65 to VDE 0470 T1
- Enclosure: Aluminium pressure die-casting
- Cover: Sheet aluminium
- Actuator can be repositioned by 4 x 90° (depending on type)
- Cable entries 2x M20 x 1.5
- Connection designation conforming to DIN EN 50013
- Sturdy contacts
- Hard wearing guide bushes

### 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, 2 NO, 3 NC, 3 NO, overlapping contacts
- All NC contacts with  $\ominus$  in the circuit diagram are positively opening contacts
- Latching function on request

### Mounting

- 4 slots for M5 screws

### Installation advantages

- 2 cable entries for through-wiring
- Generously dimensioned connection space
- Captive cover screws

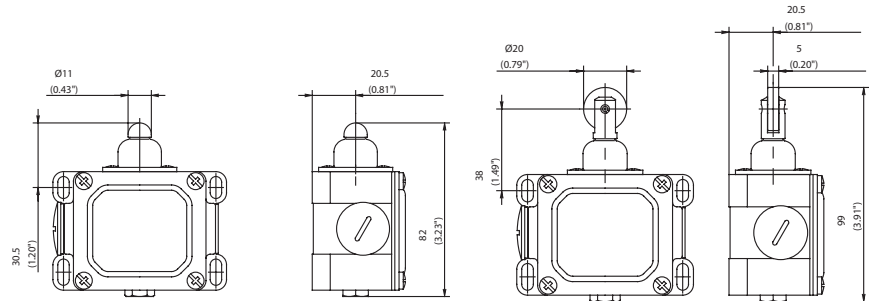
### Technical data

Electrical data		
Rated insulation voltage	U <sub>i</sub> max.	400 V AC
Conventional thermal current (up to) <sup>①</sup>	I <sub>the</sub>	10 A
Rated operating voltage	U <sub>e</sub> max.	240 V
Utilization category	AC-15, 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	Aluminium pressure die-casting	
Ambient temperature	-30 °C to + 80 °C	
Mechanical service life	10 x 10 <sup>6</sup> switching cycles	
B10d	20 Mill.	
Switching frequency	≤ 100/min.	
Type of connection	Screw connections	
Conductor cross sections	Single-wire 0.5 – 1.5 mm <sup>2</sup> or Stranded wire with ferrule 0.5 – 1.5 mm <sup>2</sup>	
Cable entry	2 x M20 x 1.5	
Protection class	IP 65 conforming to IEC/EN 60529	
Standards		
VDE 0660 T100, DIN EN 60947-1, IEC 60947-1		
VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1		

<sup>①</sup> Depending on switching system. See Table on Pages 70 – 73.

W

RW



## Switching operation

### Slow-action

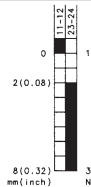
### Snap-action

### Slow-action

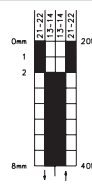
### Snap-action

## 1 NC / 1 NO contact

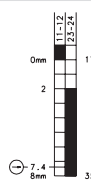
**6041103002**  
D-U1 W



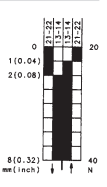
**6041153156**  
D-SU1 W



**6041118229**  
D-U1Z RW



**6041168162**  
D-SU1 RW

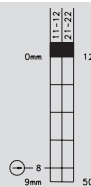


## 2 NC contacts

**6041803090**  
D-A2 W

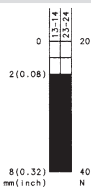


**6041818741**  
D-A2Z RW

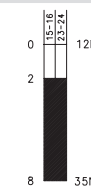


## 2 NO contacts

**6041803046**  
D-E2 W

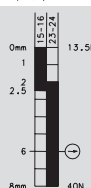


**6041818052**  
D-E2 RW

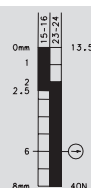


## 1 NC / 1 NO contact Overlapping

**6041303134**  
D-UV1Z W



**6041318140**  
D-UV1Z RW



## Approvals



## Replacement actuator: -

## Replacement actuator: -

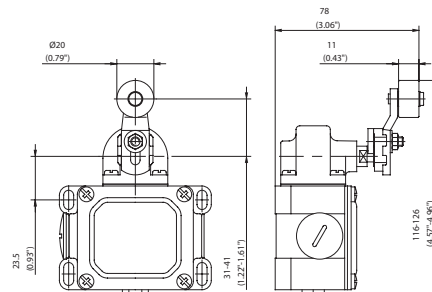
## Special features / variants (on request)

- Also available with following contacts:
  - 3 NC contacts
  - 3 NO contacts
  - 2 NC / 2 NO contact (larger enclosure)

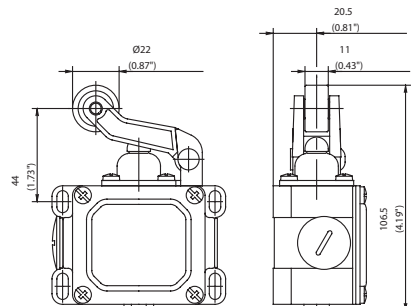
## Special features / variants (on request)

- Available for high temperature range
- With following contacts:
  - 3 NC contacts
  - 3 NO contacts
  - 2 NC / 2 NO contact (larger enclosure)

## AH



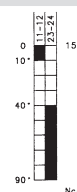
## HW



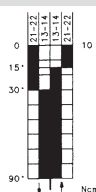
## Switching operation

1 NC / 1 NO contact

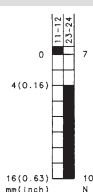
## Slow-action

6041135019  
D-U1 AH

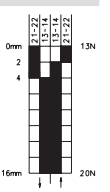
## Snap-action

6041185173  
D-SU1 AH

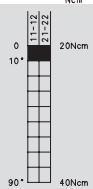
## Slow-action

6041121010  
D-U1 HW

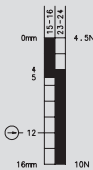
## Snap-action

6041171164  
D-SU1 HW

2 NC contacts

6041835107  
D-A2 AH

2 NO contacts

1 NC / 1 NO contact  
Overlapping6041321142  
D-UV1Z HW

## Approvals



Replacement actuator: 3914350924

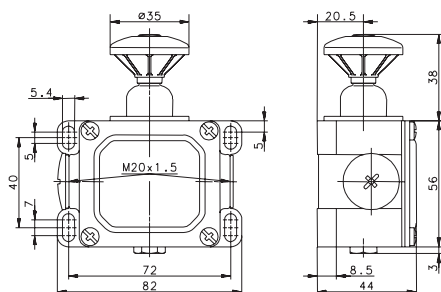
Replacement actuator: 3914211065

Special features / variants  
(on request)

- With steel roller, various roller diameters
- Cranked or straight lever
- Different lever lengths
- Also available with following contacts:
  - 3 NC contacts
  - 2 NC / 2 NO contact

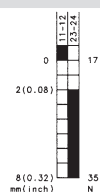
Special features / variants  
(on request)

- Available for high temperature range
- With following contacts:
  - 3 NC contacts
  - 2 NC / 2 NO contact (larger enclosure)

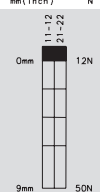


### Slow-action

6041113006  
D-U1 PW



**6041813835**  
D-A2Z PW



**Replacement actuator: –**

### Special features / variants

**Special treat**  
(on request)

- Also available with following contacts:  
3 NC contacts  
3 NO contacts  
2 NC / 2 NO contact  
(larger enclosure)