



**EN** Operating instructions. . . . . pages 1 to 3  
Original

**1. Purpose and use**

The DHS-U1 door handle system can optionally be used with the RSS260 or RSS36 safety sensors, including the ACC-DHS-U1-INS-RST-U-2 accessory.

The operating instructions for the DHS-U1 and the RSS260 or RSS36 must be observed as well.

When using the combination of DHS-U1, RSS260 or RSS36 and ACC-DHS-U1-INS-RST-U-2 deviating or additional instructions for assembly position and switching distances are listed below.

**Warning about misuse**



In case of improper use or manipulation of the safety switch-gear, personal hazards or damages to machinery or plant components cannot be excluded.

**2. Mounting**



During fitting, the requirements of EN ISO 14119 must be observed.

The ACC-DHS-U1-INS-RST-U-2 actuator insert (comprising actuator insert, RST-U-2 actuator and attachment screw) available as an accessory must be used for use of the DHS-U1 with an RSS260 or RSS36 safety sensor.

There is a lug and a hole at three possible positions on the inside of the ACC-DHS-U1-INS-RST-U-2 insert to allow the actuator RST-U-2 to be mounted. The RST-U-2 actuator must be mounted by the user in the actuator insert on the desired side, depending on the door hinge.

A 1.2 mm pin into the rear hole of the RST-U-2 prevents twisting.

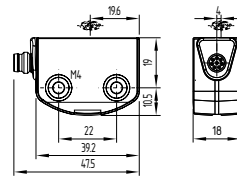


To ensure reliable detection of the RFID tag, only one actuator RST-U-2 may be mounted.

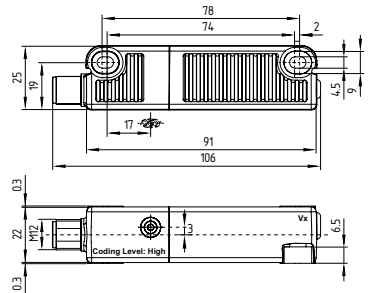
**2.1 Dimensions**

All measurements in mm.

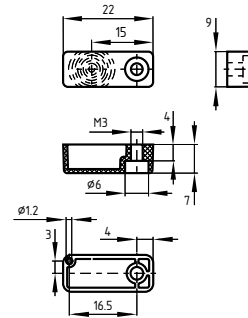
Safety sensor RSS260



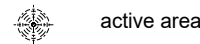
Safety sensor RSS36



Actuator RST-U-2

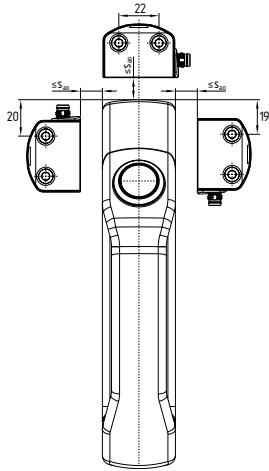


**Legend:**

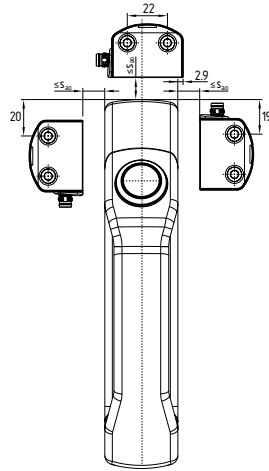


2.2 Installation positions DHS-U1 with RSS260

DHS-U1 and RSS260 with connector at the right-hand side



DHS-U1 and RSS260 with connector at the left-hand side

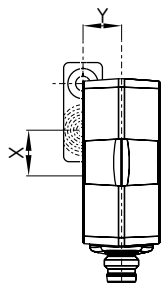


Switching distances to EN 60947-5-3	
Typical switching distance $s_{typ}$ :	8 mm
Assured switching distance $s_{ao}$ :	
- in the temperature range $-10\text{ °C} \dots +60\text{ °C}$ :	6 mm
- in the temperature range $-25\text{ °C} \dots +65\text{ °C}$ :	4 mm
Assured switch-off distance $s_{ar}$ :	16 mm

**i** When fitting the RSS260 above the DHS-U1, the switching distances are reduced by 1 mm.

Switching distances in the event of misalignment

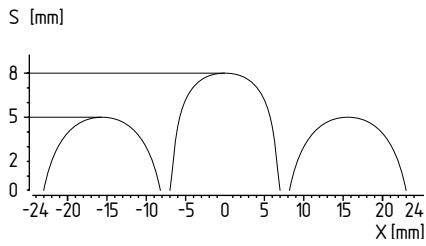
The transverse misalignment (Y) is max.  $\pm 16$  mm.  
The height misalignment (X) is max.  $\pm 7$  mm.



Actuating curves

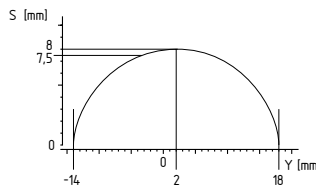
The actuating curves represent the typical switching distance of the safety sensor during the approach of the actuator subject to the actuating direction

Height misalignment

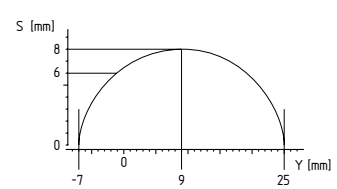


Transverse misalignment

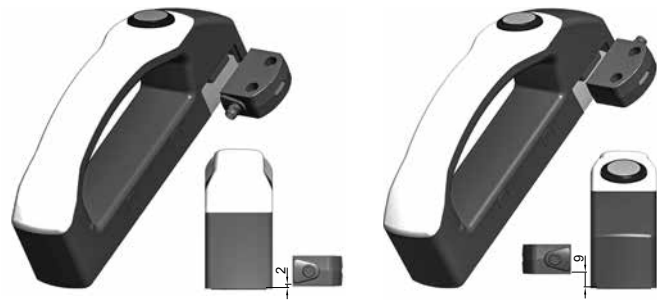
DHS-U1 and RSS260 with connector at the right-hand side



DHS-U1 and RSS260 with connector at the left-hand side



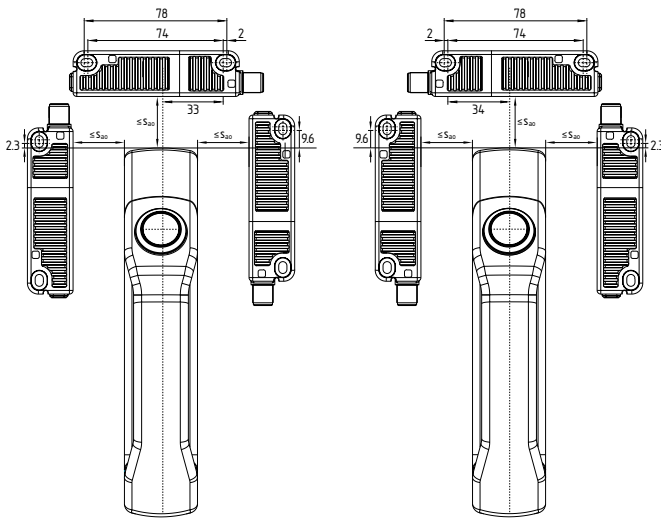
**i** The maximum typical switching distance of 8 mm is achieved by adjusting the RSS260 mounting height by +2 mm or +9 mm.



### 2.3 Installation positions DHS-U1 with RSS36

DHS-U1 and  
RSS36 with connector at the  
right-hand side

DHS-U1 and  
RSS36 with connector at the  
left-hand side



#### Switching distances RSS36 (as of V2) to EN 60947-5-3

Typical switching distance $s_{typ}$ :	10
Assured switching distance $s_{a0}$ :	8
Assured switch-off distance $s_{ar}$ :	18

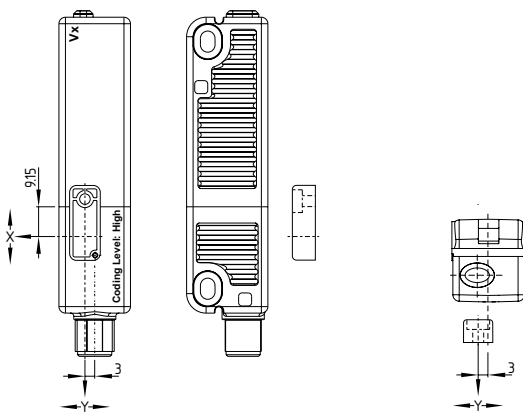


When fitting the RSS36 above the DHS-U1, the switching distances are reduced by 1 mm.

#### Switching distances in the event of misalignment

The transverse misalignment (Y) is max.  $\pm 17.5$  mm.  
The height misalignment (X) is max.  $\pm 8$  mm.

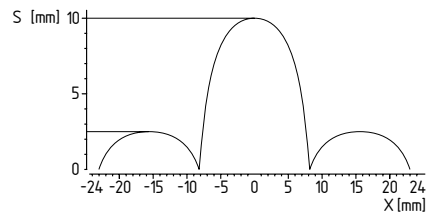
#### Mounting position



#### Actuating curves

The actuating curves represent the typical switching distance of the safety sensor during the approach of the actuator subject to the actuating direction

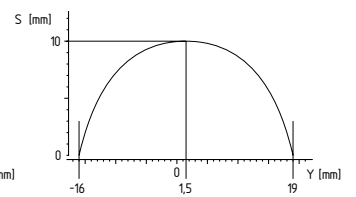
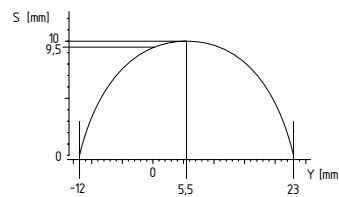
#### Height misalignment



#### Transverse misalignment

DHS-U1 and  
RSS36 with connector at the  
right-hand side

DHS-U1 and  
RSS36 with connector at the  
left-hand side



The maximum typical switching distance of 10 mm is achieved by adjusting the RSS36 mounting height by +5.5 mm or +1.5 mm.



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