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Original

**Purpose**

The safety sensor RSS 36 can be optionally used with an RST 36-1-AD actuator. Different from the standard actuators the RST 36-1 and RST 36-1R which both have different RFID identification, the RST 36-1AD actuator with the same part number also has an RFID identification.

**i** AS-i Safety at Work: When used with the RSS 36....AS this identification can be issued to the ASi protocol for identification of the actuator.

The operating instructions of the RSS36 is to be considered. When using the combination RSS 36 and RST 36-1-AD the following deviations and supplementary information concerning the tamper protection and switch distance is given.

**Warning about misuse**

**!** In case of improper use or manipulation of the safety switchgear, personal hazards or damages to machinery or plant components cannot be excluded when safety switchgear is used.

The individually coded safety sensors RSS 36-1 when used with the RST 36-1-AD actuator are for example used for applications where different protection areas that have different mechanically exchangeable components need to be protected. Using different RST 36-1-AD actuator versions allow groups to be constructed where components can be exchanged within the group, but not with different groups. In doing this however, it needs to be noted that the sensor-actuator combination in this case do not have any individual coding allocation as several identical actuators may be present. If this is the case, then the coding level according to EN ISO 14119 is to be considered as low.

**!** **Coding level low according to EN ISO 14119**  
As long as the replaceability of the actuators with identical coding cannot be excluded, the system RSS 36 with RST 36-1-AD, even when using RSS sensors for individual coding, is to be considered as low.

**Mounting**

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

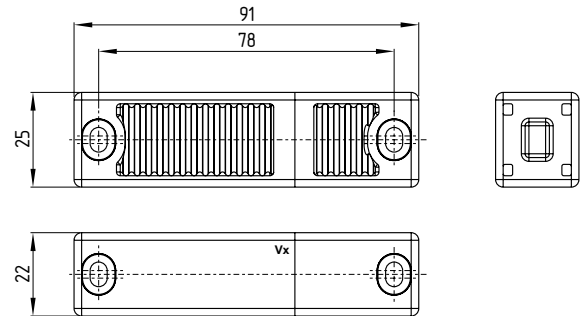
The mounting of the sensor and actuator takes place using M4 screws (max. tightening torque 2.5 Nm). The active areas of the safety sensor and the actuator have to face each other.

**!** Safety sensor and actuator must be permanently fitted to the safety guards and protected against displacement by suitable measures (tamperproof screws, gluing, drilling of the screw heads).

**Dimensions**

**RST-36-1-AD..**

All measurements in mm.



**Switching distances to EN 60947-5-3:**

Typical switching distance  $s_{typ}$ : 12 mm  
Assured switching distance  $s_{ao}$ : 10 mm  
Assured switch-off distance  $s_{ar}$ : 20 mm

**!** There are new switch distances as per the table below owing to the necessity of technical modifications (as of V2). Please check the design of your guard system following installation to ensure adherence to the secured switch distances ( $\leq s_{ao}$  and  $\geq s_{ar}$ ) in accordance with the specified values and adjust the guard system accordingly. The positions of the designations Vx should be gleaned from the dimensional drawings.

Switching distances in mm to EN 60947-5-3	Actuator RST	Actuator RST as of V2
Sensor RSS	$s_{typ}$	12
	$s_{ao}$	<b>8</b>
	$s_{ar}$	16
Sensor RSS as of V2	$s_{typ}$	12
	$s_{ao}$	10
	$s_{ar}$	<b>20</b>

**i** With the combination of "old sensor - new actuator (as of V2)" there may be limitations in availability owing to the reduced  $s_{ao}$  (8 mm). This change has no effect on the switching distance.

More technical information can be found in the Schmersal online catalog on the Internet at [products.schmersal.com](http://products.schmersal.com).

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