ABB	ABB AB Jokab Safety	SENTRY TSR20 EN
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1.1 Description

The Original instructions 2TLC010002M0201 Rev C is missing information regarding how to manage the timer function when changing the off-delay time by use of the switch on the font of the product. Below information will help the user to set the time delay of the product.

Affected text and feature

An excerpt from the affected Original instructions:

"7.3 TSR20, TSR20M

The initial setting for Off-delay is 1.5 s. • Use the switch (1) to change settings for Off-delay between 1.5 s (2) and 0.5 s (3). • Power cycle (power off and on) the safety relay when a setting has been changed." – NOTE this instruction is incorrect.
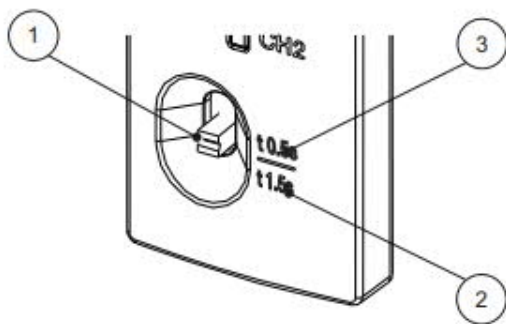

Figure 63: Switch for Off-delay settings.

1.2 Initial setting of the time delay

The unit is delivered with the switch (1) in position (2), but not with settings stored. Hence the product is not ready for use out of the box.

When applying power for the first time (regardless of T1/R1, T2/R2 connection) the unit LED will light up accordingly:

Ch1	Mode	Ch2
Red	Flashing red	Red

In the manual this is described as a fail-safe mode where the unit is waiting for a new setting.

At this state no setting has been made.

By moving the switch to position (3) the unit will store a setting and the unit LED will light up accordingly:

Ch1	Mode	Ch2
Red	Flashing blue	Red

At this state the storing of the setting still need to be completed with a power cycle.

When a power cycle is performed at this state, the unit will start with up with the setting of position (3) and the unit will be ready for use. Dependent on if input channels and test circuit is connected the unit will enter one of the states below:

Ch1	Mode	Ch2
	Blue	

See the Original instructions for description.

If instead the switch was toggled back again to position (2) before the power cycling, the settings of position (2) would have been stored. Dependent on if input channels and test circuit is connected the unit will enter one of the states below:

Ch1	Mode	Ch2
	Blue	

See the Original instructions for description.

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1.3 Changing the setting of a relay which is already configured

To change the time delay setting of a relay with a stored configuration, use the following procedure:

1. change the switch to the new setting

2. change the switch back to the original setting

3. change the switch once again to the new setting

The relay will enter this state:

Ch1	Mode	Ch2
Red	Flashing blue	Red

4. power cycle

Dependent on if input channels and test circuit is connected the unit will enter one of the states below:

Ch1	Mode	Ch2
	Blue	
green	Blue	
	Blue	green
green	Blue	green
green	green	green

The relay is now operational with the new setting.

1.4 Summary

The important thing to understand is that a setting can only be stored when the unit is in this state:

Ch1	Mode	Ch2
Red	Flashing blue	Red

Not this state:

Ch1	Mode	Ch2
Red	Flashing red	Red

This is a safety feature to avoid unintentional changes of settings during run-time as well as during power-off.