REPEATERS IN TOGGLE SWITCH APPLICATIONS

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Observe precautions! Electrostatic sensitive devices!

Patent protected:
WO98/36395, DE 100 25 561, DE 101 50 128,
WO 2004/051591, DE 103 01 678 A1, DE 10309334,
WO 04/109236, WO 05/096482, WO 02/095707,
US 6,747,573, US 7,019,241

REVISION HISTORY

The following major modifications and improvements have been made to this document:

Version	Author	Reviewer	Date	Major Changes
1.0	CB		2007.02	Original version
2.0	CB		2019.11	Content update
3.0	AZ	JB	2026.11	Document maintenance

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Packing: Please use the recycling operators known to you.

TABLE OF CONTENTS

1 Repeaters in Toggle Switch Applications 4

1 Repeaters in Toggle Switch Applications

If repeaters are used in toggle switch applications, the receiver must also evaluate the telegram repeater status / counter.

In toggle switch applications using EnOcean transceivers in combination with repeaters, you must ensure that no serial command interpretation error caused by repeated telegrams occurs at the receiver/actuator.

A toggle signal means that the same telegram data, e.g. the same button action from a PTM switch, alternately switches an actuator ON and OFF. In toggle mode, a light is switched ON and OFF by receiving the same "I" button telegram from a PTM module. If the first telegram switches the light ON, a repeated telegram (arriving within the same receiver maturity time of 100 milliseconds) would switch the light OFF again if the receiver does not recognize the repeated status of this telegram.

It is therefore mandatory to also interpret the RP_COUNTER field (Status) of the telegrams. If a repeated telegram (e.g. with RP_COUNTER=1) is received within the maturity time, it must be verified whether an original message with the same data but with RP_COUNTER=0 has already been received during the previous 100 milliseconds. If the original message is detected, the following repeated one(s) must be discarded accordingly.

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