

## STAR REPEATER

### *For cost-sensitive applications*

EMS Dr. Thomas Wuensche has developed the CRep S4 star repeater as a version of the CRep S8C with reduced channel count and without cascading ability.

The company has been offering CAN star repeaters for several years. The primary attribute of these devices is to enable star structures, which allow realization of extended CAN networks. An advantage of the repeaters is the reduction of segment costs, because one star repeater can replace up to four standard repeaters, said the company. In opposite to the use of regular repeaters to realize a star structure the propagation delay between two segments is lowered nearly by the factor of two because the main trunk is integrated in the device. Furthermore, segments can be connected or disconnected without influencing the rest of the system. There are common CAN applications like the controlling of stage structures in vast concert halls, where this ability is essential.

The star repeater CRep S8C has eight CAN channels and up to three devices can form a cascade to offer 24 channels. The CRep S10I has ten channels which are all galvanic decoupled from each other. Following several customer requests EMS Dr. Thomas Wuensche has developed the CRep S4 as a version of the CRep S8C with reduced channel count and without cascading ability for cost sensitive applications. The developed repeater has four CAN segments, which can be connected by a 3-pol terminal block. A 2-pol cable connector provides energy supply. LEDs inform about the actual system status. With this product there is the possibility to realize smaller CAN systems with cost effective star structures.



*The CRep S4 star repeater (Photo: EMS Wuensche)*

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