

DATASHEET



CAN-CR120/HV

The CAN repeater CAN-CR120/HV with two CAN/CAN FD interfaces can be used to improve the load capacity of the CAN bus with nodes, to establish physical coupling of CAN/CAN FD bus systems or to insert a galvanic isolation up tp 3 kV for higher protection of the CAN segments.

It creates the necessary flexibility to optimize the structure of CAN/CAN FD networks and to free CAN networks from the restriction to the bus structure. It can be used to implement tree or star topologies as well as stub lines. Since there is no integrated bus termination resistor, it gives you flexibility in positioning resistors for CAN termination.

The CAN-CR120/HV separates a defective segment from the rest of the network, allowing the remaining network to continue working.

FEATURES AND BENEFITS

- CAN and CAN FD interfaces in one device
- Cost savings due to simple wiring
- Almost no influence on real-time behavior
- Greater flexibility in CAN network design
- Separates a defective segment, allowing the remaining network to continue working
- Increased system reliability
- 2 x CAN/CAN FD channels
- Galvanic isolation
- Protection of segments up to 3 kV

ORDER NUMBER	1.01.0210.20210	
Display	2 x CAN status LED (duo LED for communication and errors), Power LED	
CAN channels (high-speed)	2	
CAN FD/CAN channels	2	
CAN bus interface	ISO 11898-2 with CAN choke, 2 x screw terminals	
CAN bit rates	Up to 1 Mbit/s	
CAN FD bus interface	ISO CAN FD and nonISO CAN FD	
CAN FD bit rates	Arbitration rate: up to 1000 kBit/s, data rate: up to 8000 kBit/s (verified by testing). User defined bit rates are possible.	
CAN bus termination resistors	None	



ORDER NUMBER	1.01.0210.20210	
Galvanic isolation	3 kV DC/1 sec, 1500 V AC/1 min; CAN 1, CAN 2 and power supply are galvanically isolated from each other.	
CAN propagation delay (typical)	Typ. 175 ns (35 m bus length)	
Power supply	+9 V to +36 V DC	
Power consumption at 24 V	Typ. 70 mA, max. 100 mA	
Operating temperature	-20 °C to +70 °C	
Weight	111 g	
Dimensions	22.6 x 99 x 113 mm	
Storage temperature	-40 °C to +85 °C	
Protection class	IP20	
Relative humidity	10 to 95 %, non-condensing	
Certification	CE, FCC	
Housing material	Polyamid	

CERTIFICATES	
CE	FC

ACCESSORIES	ORDER NUMBER
Termination adapter for CAN/CAN FD (D-Sub male to female)	1.04.0075.03000
CAN cable 2.0 m (D-Sub male to female)	1.04.0076.00180
CAN Y cable 0.22 m	1.04.0076.00001
CAN Y cable 2.1 m	1.04.0076.00002





