DATASHEET

CAN/FD Repeater



The Ixxat CAN/FD Repeater with two CAN/CAN FD interfaces can be used to improve the load capacity of the CAN bus with nodes, to establish a physical coupling of CAN/CAN FD bus systems or to insert a galvanic isolation.

It provides the flexibility to optimize network structures and liberates them from CAN bus structure constraints for optimized operation.

FEATURES AND BENEFITS

- Flexible push-in connectors
- Robust for industrial use
- Compact DIN-rail housing
- Integrated CAN termination resistors for each CAN channel; separately switchable by piano switches
- Easy coupling of CAN systems and devices
- Cost savings due to simple wiring
- Increased system reliability
- Line protection by galvanic isolation
- Protection of segments up to 5 kV

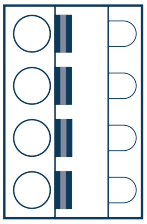
ORDER NUMBER	1.01.0211.20000
Display	3 x LEDs: 1 x Power and 2 x CAN
CAN/CAN FD channels	2
CAN high-speed interface	Removable push-in connectors
CAN FD bit rates	14 kBit/s to 8000 kBit/s
CAN bus termination resistors	For each CAN/CAN FD channel; separately switchable by piano switches
CAN/CAN FD transceiver	TCAN1044 or compatible
Galvanic isolation	CAN-CAN and CAN-power with at least 5 kV DC for 1 minute; CAN-shield to earth and power to earth with at least 2 kV DC for 1 minute
CAN propagation delay (typical)	Typ. 175 ns (35 m bus length)
Power supply	10 to 30 V +-0 %
Power consumption at 24 V	< 1 W
Operating temperature	-25 °C to +70 °C
Weight	135 g
Dimensions	108 x 149 x 27 mm
Storage temperature	-40 °C to +80 °C

ORDER NUMBER	1.01.0211.20000
Protection class	IP20
Relative humidity	0-90 %, non-condensing
Certification	CE, FCC
Housing material	PC ABS, UL 94 VO

CERTIFICATES

PIN ALLOCATION

CAN CONNECTORS 1/2



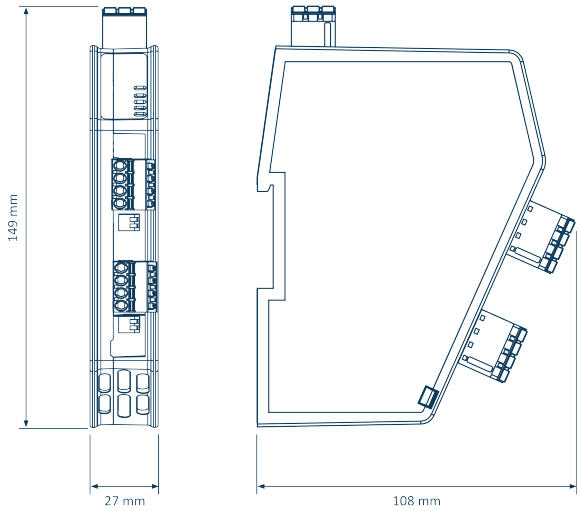
Shield
CAN-GND
CAN-Low
CAN-High

POWER CONNECTOR



GND
V-
V+ (10-30 VDV)

TECHNICAL DRAWING



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