

5.9. CAN: Controller Area Network

KRYPTON CAN interfaces are intended for CAN-FD and CAN acquisition in harsh environments. KRYPTON CAN devices support OBDII, J1939 standard protocols and can output CAN messages:

- KRYPTONi-2xCAN-USB,
- KRYPTONi-1xCAN, KRYPTONi-1xCAN-FD.

5.9.1. KRYPTONi-2xCAN-USB

KRYPTONi-2xCAN-USB has 2 CAN ports and it uses USB 2.0 as an interface.



Important

Data exchange and power for the device itself are provided exclusively via the USB connection. This device does not support data transmission over EtherCAT connections.



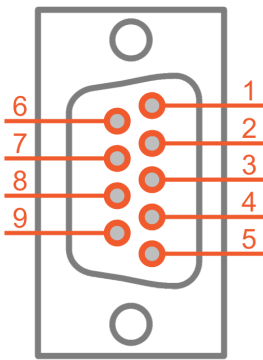
KRYPTONi-2xCAN-USB

5.9.1.1. KRYPTONi-2xCAN-USB: Specifications

CAN ports specification	
Number of ports	2
Interface type	CAN 2.0B
Interface data rate	up to 1 Mbit/sec
Special protocols	OBDII, J1939, CAN out
Galvanic isolation (Sensor supply not isolated)	Isolated
Bus pin fault protection	±36 V
Power specification	
Power supply	6 - 36 V DC Startup voltage 7 V
Maximum sensor power consumption	3 W max total (max 2 W on 15 V)
Maximum power consumption	5.5 W
Environmental specification	
Interface	USB 2.0
Connector type	9 pin D-SUB

Physical dimensions	105 x 90 x 30 mm 3.94 x 3.54 x 1.18 inch
Weight	Weight 230 g 0.51 lbs
Operating temperature	-20°C to +60°C
Storage temperature	-40°C to +70°C
Humidity	5 to 95 % RH non-condensing at 50 °C
IP protection	IP50

5.9.1.2. KRYPTONi-2xCAN-USB: DSUB Connectors: Pinout



CAN connector: pinout (DSUB-9 male)

Pin	Name	Description
1	+5V	5 V supply max. current: 500 mA
2	CAN_LOW	CAN low
3	DGND	Digital Ground
4	RES	Reserved
5	RES	Reserved
6	DGND	Digital Ground
7	CAN_HIGH	CAN high
8	RES	Reserved
9	+15V	15 V supply max. current:



Note Power for sensor excitation (available on Pin 1 and Pin 9) is not internally generated from the USB bus. It must be provided by an external power source connected to the device's EtherCAT device OUT (8-pin LEMO) connector.