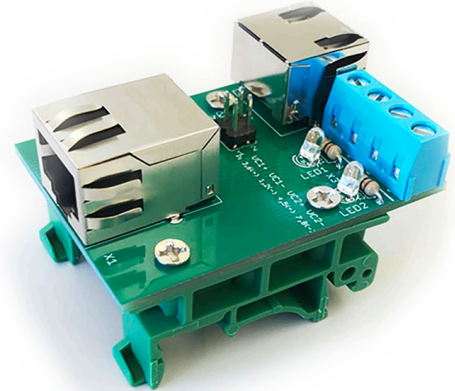


DIN rail EtherCAT power injector

Din rail PoE passive injector/splitter mode A/B. Suitable for all Bota Systems' EtherCAT sensors of **Gen Zero**.

Suitable for the following products

- ▶ EtherCAT Sensors Gen Zero



Configurations

Ordering number	Description
ACC-POE-AB	Din rail PoE passive injector/splitter mode A/B.

Technical specification

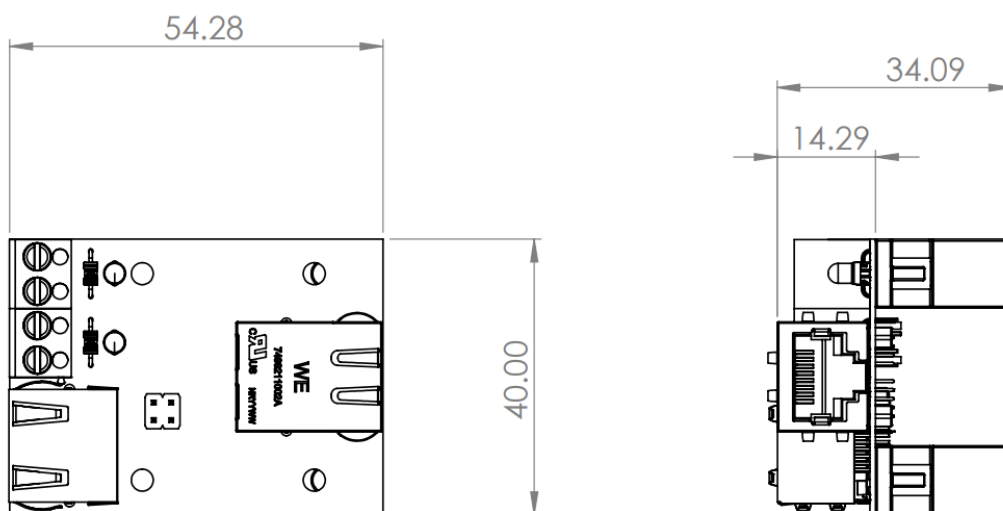


FIGURE 1

EtherCAT Gen Zero Installation

For all EtherCAT sensors of generation Zero the sensor cable must be plugged to the lower RJ45 connector of Figure 2. The EtherCAT master (computer, robot controller or PLC) must be connected on the top left RJ45 adapter with an ethernet cable. The sensor's power supply can be provided in two ways, Mode A or B. Mode A injects the power to the data lines and Mode B injects power to the spare ethernet pairs. The two screw terminal pair can be used to supply power with either mode (see Figure 2). All EtherCAT sensor of Gen 0 are supporting both modes. Is recommended to use Mode B unless a custom wiring with only 4 wires is required to connect to the sensor, for example using a slip ring or a tool changer.

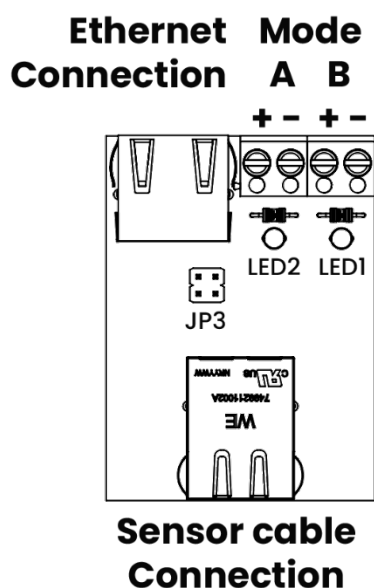


FIGURE 2

Sensor cable wires	Sensor Cable connector	Signals Mode A	Signals Mode B
Orange, white	1	Tx+/PWR	Tx+
Orange	2	Tx-/PWR	Tx-
Green, white	3	Rx+/GND	Rx+
Blue	4		PWR
Blue, white	5		PWR
Green	6	Rx-/GND	Rx-
Brown, white	7		GND
Brown	8		GND
Shield	Shield	Based on JP3 configuration. See table below. Default: Connected to GND	

Jumper JP3

Jumper on upper pins
default: OFF, open

Connects the shielding of the RJ45 ethernet connection to the power supply negative (-)

Jumper on lower pins
default: ON, closed

Connects the shielding of the RJ45 sensor cable connection to the power supply negative (-)

Technical data

Property	Value		
Application		Materials	
Degree of protection	No	Rail Brackets	PA
Mechanical mating cycles	≥ 100	PCB	FR4
Rail compatibility	- IEC/EN 60715 Top hat rail 35×7.5 or 35×15 - TS35 - G type EN 50035 G32	Connectors Screws	Steel Copper Nickel
Application	Ethernet 100 mbs	Electrical	
Ambient temperature (operation)	-25 °C - 80 °C	Contact resistance	5 mOhm
Certification		Insulation resistance	100 MOhm
RoHS	Yes	Rated voltage	9-48V dc
CE	Yes	Rated current	1A
Class of pollution	3		