Introduction

AI8x is a module with 8 analog inputs designed for standard DIN rail mounting with proprietary MTBus.
The inputs can be of the differential type with a range of -10..+10V or of the current type with a range of 0..20mA.
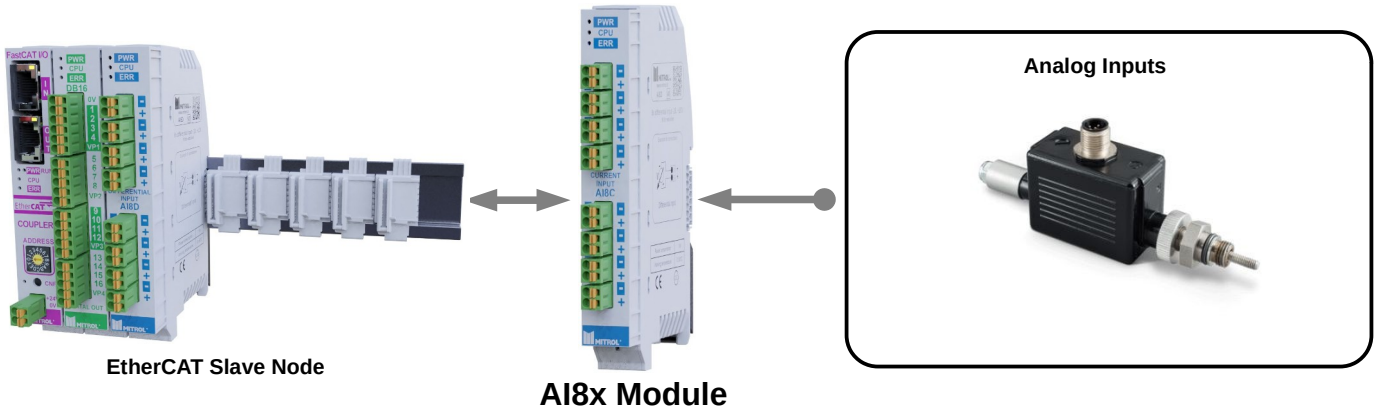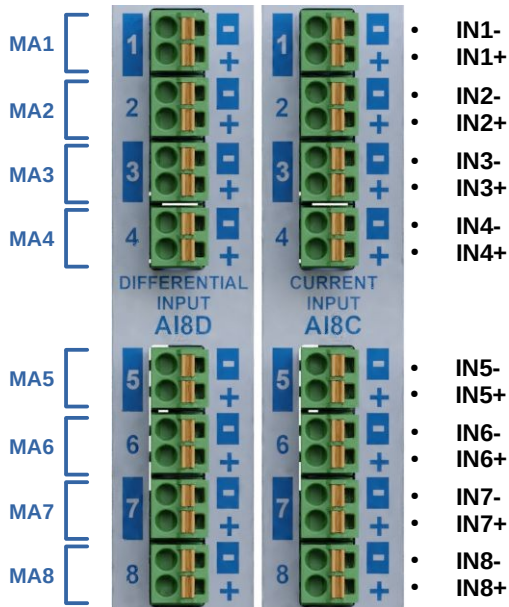The module indicates its status via three diagnostic LEDs.

Hardware Specification

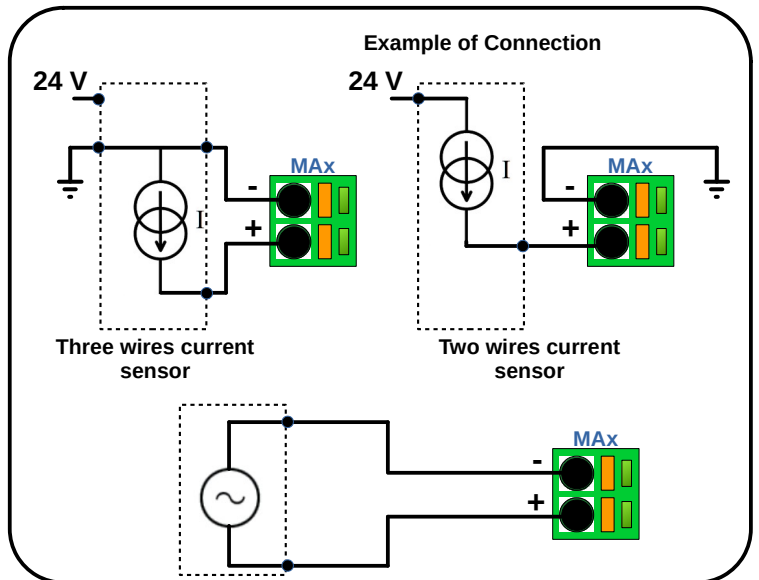| Model	AI8D	AI8C
Analog Input		
Channels	8	
Analog type	Differential	Current
Analog range	-10..+10V	0..20mA / 4..20mA
Resolution	16bit	
Conversion time	1ms for all inputs	
Digital filter	Configurable	
Common mode range	±20V (refered to internal GND)	
Electrical		
Electrical isolation	500Vrms	
Power consumption	1W	
Interface	Proprietary MTBus	
Stripping length	8-9mm	
Specification	EN 61131-2	
Diagnostic leds	Power (green); CPU (yellow); Error (red)	
Mechanical		
Dimensions [W x H x D]	19x120x93mm	
Installation	On 35mm DIN-Rail	
Enviroment		
Operating/storage temperature	0..55°C / -20..+85°C	
Relative humidity	Max 95% without condensation	
Degree of protection	IP20	

Application

EtherCAT Slave Node

AI8x Module

Analog Inputs

Pin Assignements

MA1	IN1- / IN1+
MA2	IN2- / IN2+
MA3	IN3- / IN3+
MA4	IN4- / IN4+
MA5	IN5- / IN5+
MA6	IN6- / IN6+
MA7	IN7- / IN7+
MA8	IN8- / IN8+

DIFFERENTIAL INPUT **AI8D**

CURRENT INPUT **AI8C**

Wire Connections

Example of Connection

Three wires current sensor

Two wires current sensor

Dimensions (Units: mm)

19

93

120