



PLC.239

PLC



- I/O expander for electrical panel installation
- Up to 8 inputs and up to 8 outputs
- Easy to integrate on DIN rails (G / Ω type) installation where flexibility and reliability are required
- Can be implemented in a CAN network as SLAVE module

TECHNICAL FEATURES

MASTER CODE		PLC.239
POWER SUPPLY		9 - 36 VDC
INPUT	TOTAL 8	4 DIGITAL OPTOCOUPLED INPUTS, WITH COUNTER, ENCODER OPTION 4 ANALOGIC INPUTS: 0÷40Vdc - 4÷20mA - DIGITAL HIGH OR LOW SIDE (SOFTWARE SELECTABLE)
OUTPUT	TOTAL 8	8 OUTPUTS (CLOSED-LOOP CONTROL SYSTEM, SINGLE OUT 4A MAX)
LED		I/O STATUS CAN PORT STATUS POWER SUPPLY STATUS DIAGNOSE
CAN BUS	1 PORT	2.0B COMPLIANT - (11, 29 BIT) - ISO 11898 - UP TO 1MBIT/S
CAN BUS PROTOCOLS		CAN OPEN (CIA DS401 DEVICE PROFILE FOR GENERIC I/O MODULE, WITH DS306 EDS FILE) ON REQUEST: SAE J1939 - ISO 11783 (ISO BUS) - FMS
SERIAL	1 PORT	ON REQUEST: RS232 UP TO 115200 BAUD
CONNECTIONS	TOTAL 2	REMOVABLE CLAMP CONNECTOR, WIRE SECTION 1.5 mm ² / 16 awg
WORKING TEMPERATURE		-40°C +80°C

ELECTRONIC FEATURES

SLAVE USAGE	EDS FILE
PROGRAMMING	FIRMWARE UPLOAD BY CAN BUS WITH ALOADER SOFTWARE TOOL
CPU	FAMILY: ARM Cortex M4, 32bit core



(25/06/2025) - 1



PLC.239

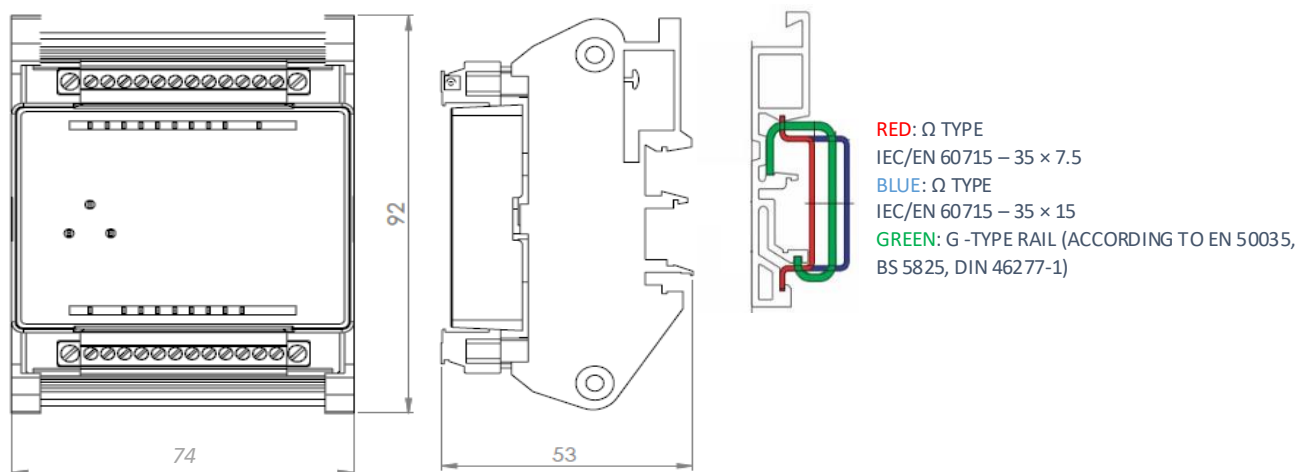
PLC

STANDARDS

IMMUNITY TO CONDUCTED INTERFERENCE	ISO 7637-2: 2004, pulses 2a, 3a, 3b, 4, severity level 4, function state A ISO 7637-2: 2004, pulse 1, 2b, severity level 4, function state C ISO 7637-2: 2004, pulse 5, severity level 1, function state A
ELECTROMAGNETIC EMISSIONS	EN 61000-6-4// EN 55011 (RF RADIATE)
ELECTROMAGNETIC IMMUNITY	EN 61000-6-2// EN 61000-4-2/3/4/6
EQUIPMENT REQUIREMENTS AND TESTS	EN 61131-2
PROTECTION	IP20

IN ACCORDANCE WITH THE EN50498 THE DEVICE MEETS THE TECHNICAL SPECIFIC REQUIREMENTS OF 2004-104 DIRECTIVE (AUTOMOTIVE).
THE DEVICE IS EMC 2004/108 COMPLIANT.

SIZE (mm)



TECHNICAL FEATURES

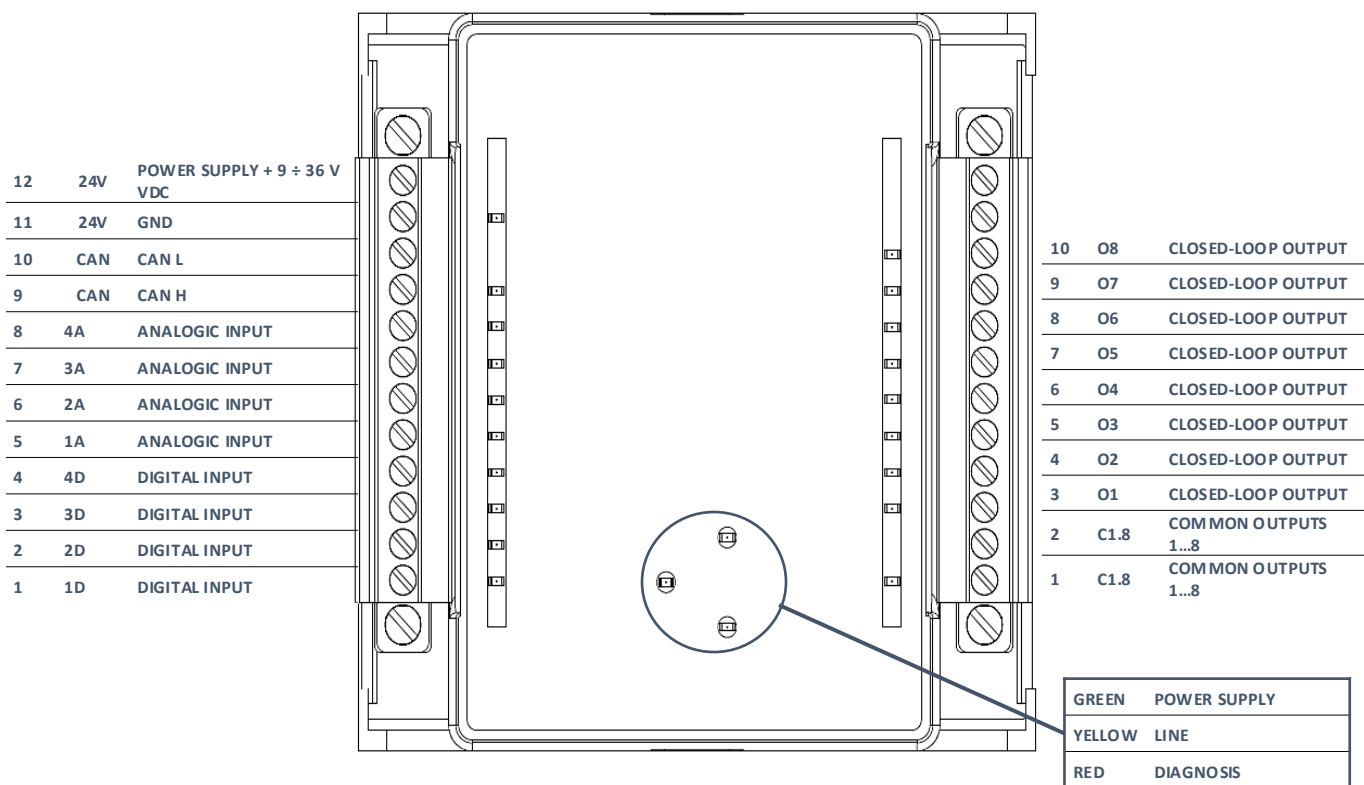
INPUT	UP TO 20 INPUTS: DIGITAL - ANALOG (4÷20mA - 0÷40Vdc)
OUTPUT	UP TO 13 OUTPUTS: PWM (PLc & PLd) - DIGITAL - SQUARE WAVE
SERIAL	1 PORT: RS485 – UP TO 3800 BPS
CAN	2 PORTS: CAN OPEN
USAGE	SLAVE: EDS FILE MASER: AL.MEClab / STANDARD C
PERFORMANCE AND SAFETY INTEGRITY LEVEL	PLd – SIL2 (DUAL CHANNEL INTERNAL SCHEME)



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CONNECTIONS TERMINALS



SAMPLE CONFIGURATIONS (ALMEC PRODUCTS COMBINATION)



PLC.163 / PLC.163DSP

MASTER USAGE

PLC.239

SLAVE USAGE



NOTE