



MCX06C electronic controller

MCX06C is an electronic controller that holds all the typical functionalities of MCX controllers in the 32x74 mm standard size: programmability, connection to the CANbus local network, Modbus RS485 serial communication interface

Programmable	Protection degree	CAN bus	MYK connection	Modbus RS485
				

General features

MCX06C	
Features	Value
ANALOG INPUTS	
NTC, 0/1V, 0/5V	2
Universal (NTC, Pt1000, 0/1V, 0/5V, 0/10V, ON/OFF, 0/20mA, 4/20mA) selectable via software	2
Total number	4
DIGITAL INPUTS	
Voltage-free contact	6
Total number	6
ANALOG OUTPUTS	
0/10Vdc, PWM, PPM selectable via software	1
PWM, PPM selectable via software	1
Total number	2
DIGITAL OUTPUTS	
SPST relay 5A (normally open contacts)	6
Total number	6
OTHERS	
Insulated power supply 20/60Vdc - 24Vac	•
Connection for programming key	•
Connection for remote display and keyboard	•
Buzzer	
CANbus	•
RTC clock	•
Modbus RS485 serial interface	•
Dimensions (mm)	33x75
Mounting	Panel

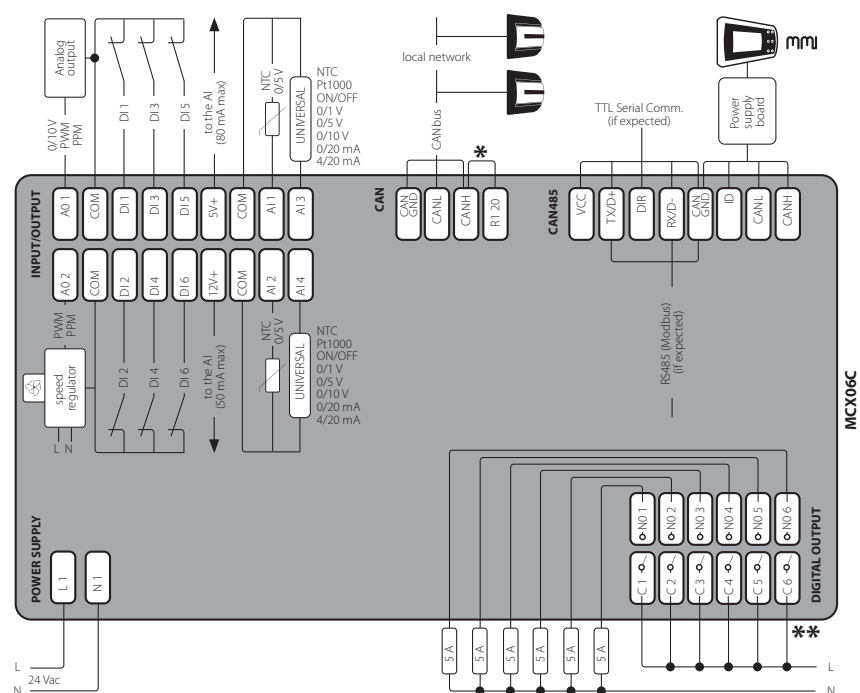
Technical specifications

POWER SUPPLY:

- 20/60Vdc and 24Vac $\pm 15\%$ 50/60Hz. Maximum power consumption: 6W, 9VA
- Insulation between power supply and the extra-low voltage: functional

MCX06C			
I/O	Type	Number	Specifications
Digital outputs	Relay	6	Insulation between relays: functional (common lines internally connected) Insulation between relays and the extra-low voltage parts: reinforced Total current load limit: 6A C1-NO1, C2-NO2, C3-NO3, C4-NO4, C5-NO5, C6-NO6 - characteristics of each relay: <i>4A 30Vdc / 250Vac for resistive load - 100.000 cycles</i> <i>0,7A 250Vac for inductive load - 100.000 cycles with $\cos(\phi) = 0,5$</i> <i>UL: 240Vac - 1A resistive - 1.0FLA - 6.0LRA - 96VA pilot duty 30.000 cycles</i>
Digital inputs	Voltage free contact	6	DI1, DI2, DI3, DI4, DI5, DI6 Current consumption: 5mA
Analog outputs	0/10V, PWM, PPM	1	AO1 Analog outputs selectable via software between: <ul style="list-style-type: none"> - pulsing output, synchronous with the line, at modulation of impulse position (PPM) or modulation of impulse width (PWM): <i>6.8V open circuit voltage (1kΩ minimum load)</i> - pulsing output, at modulation of impulse position (PPM) with range from 100Hz to 500Hz: <i>6.8V open circuit voltage (1kΩ minimum load)</i> - 0/10Vdc non optoinsulated output, referred to the ground: <i>10mA maximum loads</i>
	PWM, PPM	1	AO2 Analog outputs selectable via software between: <ul style="list-style-type: none"> - pulsing output, synchronous with the line, at modulation of impulse position (PPM) or modulation of impulse width (PWM): <i>6.8V open circuit voltage (1kΩ minimum load)</i> - pulsing output, at modulation of impulse position (PPM) with range from 100Hz to 500Hz: <i>6.8V open circuit voltage (1kΩ minimum load)</i>
Analog inputs	NTC, 0/1V, 0/5V	2	AI1, AI2 Analog inputs selectable via software between: <ul style="list-style-type: none"> - NTC temperature probes, default: 10kΩ at 25°C - pressure transducers with 0/5V output
	Universal	2	AI3, AI4 Universal analog inputs selectable via software between: <ul style="list-style-type: none"> - ON/OFF (current: 20mA) - 0/1V, 0/5V, 0/10V - 0/20mA, 4/20mA - NTC (10kΩ at 25°C) - Pt10000 12V+ power supply 12Vdc, 50mA max for 4/20mA transmitter (total on all outputs) 5V+ power supply 5Vdc, 80mA max for 0/5V transmitter (total on all outputs)

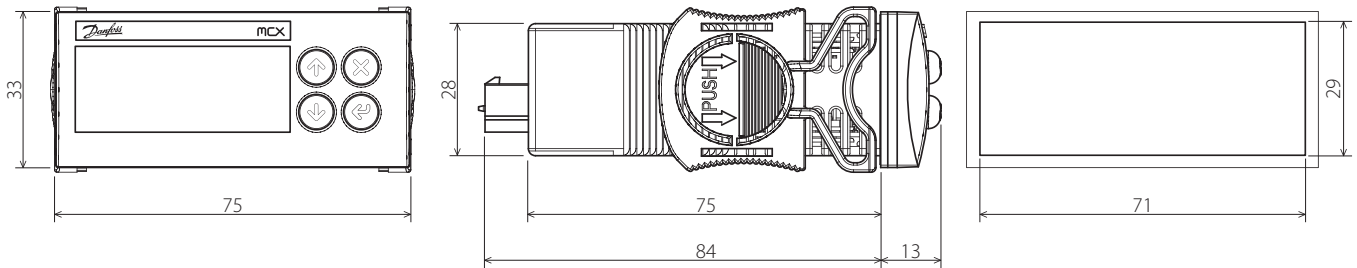
Connection diagram



*NOTE: Connection has to be made on the first and last local network units, make the connection as close as possible to the connector

**NOTE: C1, C2, C3, C4, C5, C6 internally connected between themselves

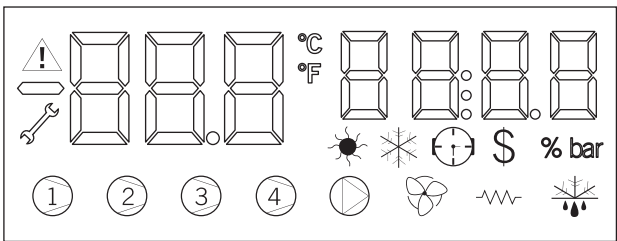
Dimensions



User interface

LED DISPLAY

- type: LED display with two groups of digits and 18 icons
- colour of digits: green
- colour of the allarm/warning icons: red
- color of the other icons: yellow/amber
- the meaning of the icons and digits is settled by the application software
- dimensions: 45x17mm



KEYBOARD

- number of keys: 4
- keys function is settled by the application software

Product part numbers

MCX06C	
CODE ***	DESCRIPTION
080G0065	MCX06C, 24V, LED, S
080G0066	MCX06C, 24V, LED, RS485, RTC, S

***NOTE: single pack codes (S) don't include standard kit connectors.
Is also available industrial pack codes (I) that don't include standard kit connectors



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