

CMGZ 480 Digital Tension Controller with CAN-BUS® Interface

PID Controller with 2 ms cycle time

High performance and fast reaction time

Functions parameterized via CAN-BUS®

Easy set-up and programming

Compact design, IP 67 Protection

Low space requirements, easy mounting

Galvanically isolated

Protected against electrical noise



● CMGZ 480 Series

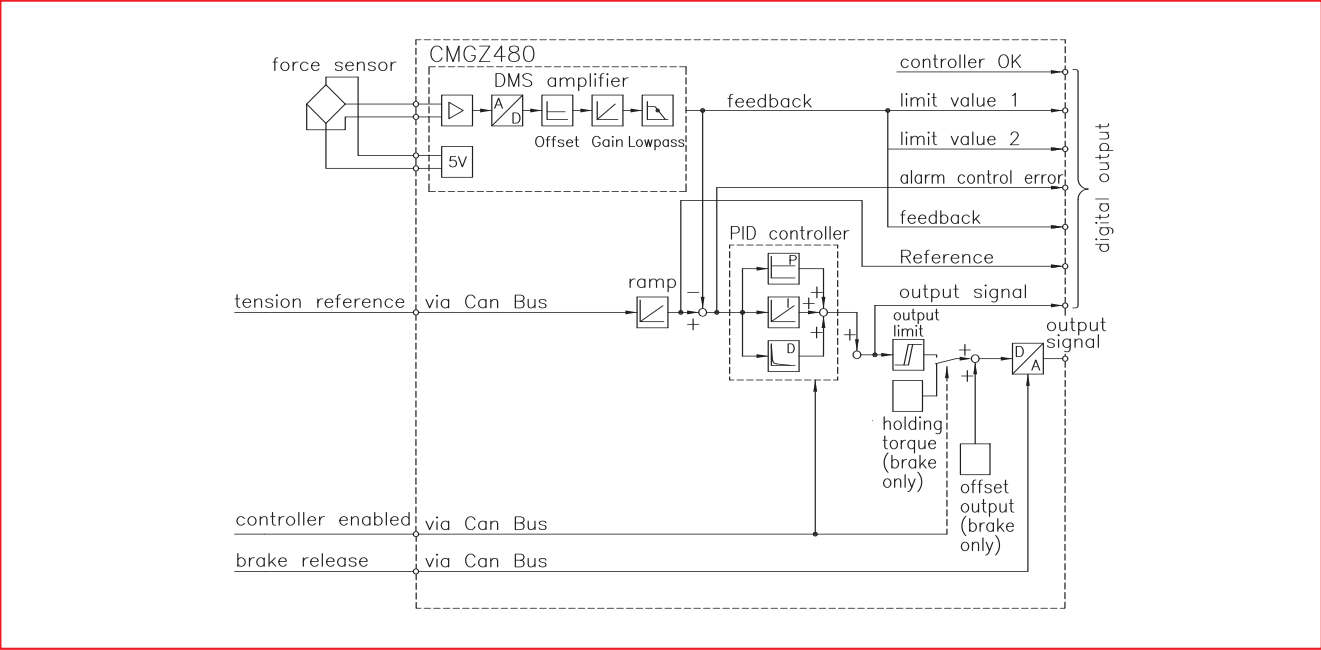
The digital tension controllers CMGZ 480 can be used with all FMS force sensors. Thanks to its specific features the controller is ideally suited for fast application e.g. in stranding machines.

CMGZ 480 controllers come in rugged, resilient aluminium housings. They were designed for dependable operation in the most demanding environments. The sealed housing is rated for a protection class of IP 67.

● Functional Description

Design und functionality of the CMGZ 480 is optimised for tension control. The tension force values are fed to the controller via a fast A/D converter. Signal processing and controlling tasks are performed digitally. This results in excellent long term temperature stability and control performance. The CMGZ 480 operates on a 2 millisecond cycle time for fast reaction and high performance. Parameter setting as well as data transmission is performed via an integrated CAN-BUS® interface using the Open CAN CiA-DS 301 protocol.

CMGZ 480 • Block Diagram



CMGZ 480 • Technical Data

Channels	1
Force sensors	2 x 350 Ω
Sensor supply voltage	5,00 VDC
Input signal	0...9 mV (max. 12.5 mV)
Resolution A/D converter	± 8192 Digit (14 Bit)
Measuring error	< 0.05 % FS
Measuring rate	2 ms
Operation	By CAN CiA-DS 301 [®] protocol
Analogue output	0...10 V (Default) / ± 10 V
Power supply	24 VDC (18...36 VDC)
Temperature range	- 10...60 °C
Protection class	IP 67
Weight	ca. 300 g

Option:

M16 = Version with Amphenol 5-pole connector for rotating applications

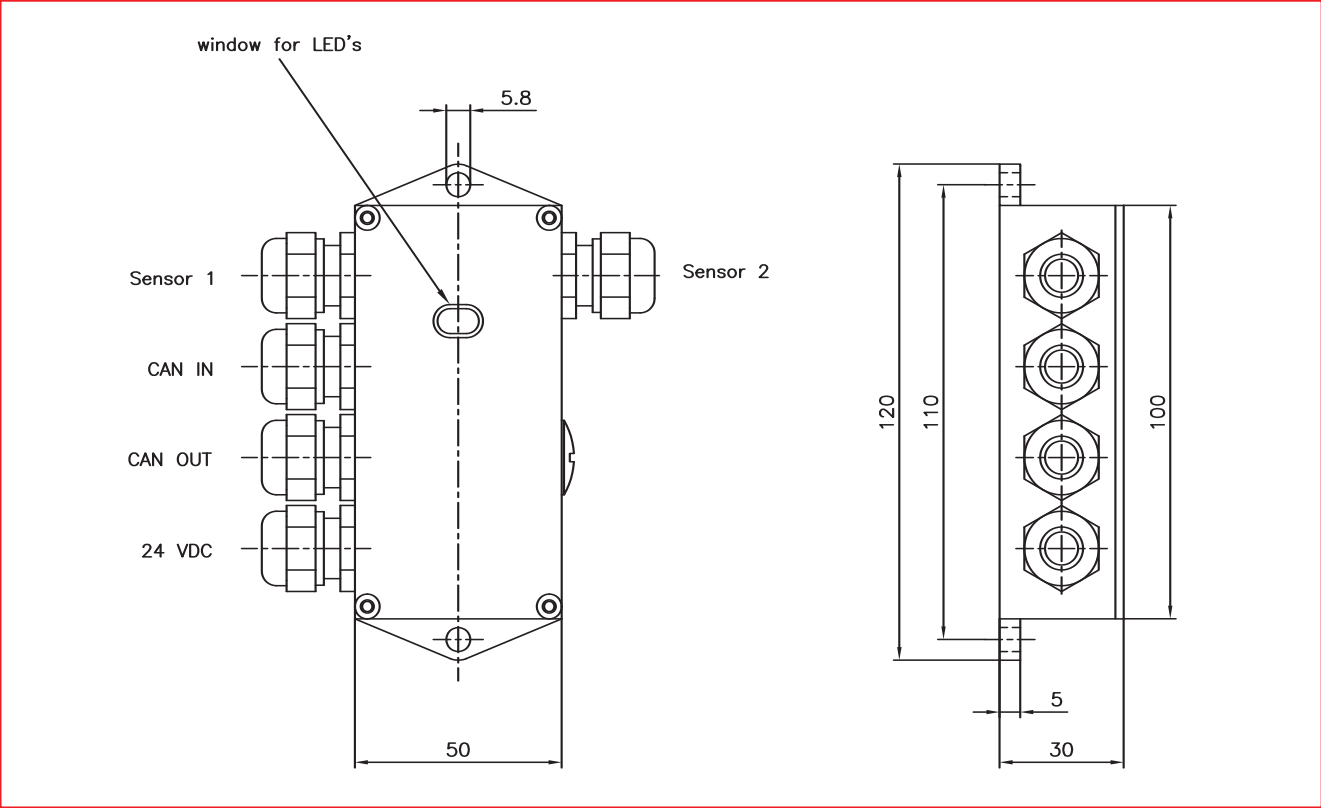
Order code (Example):

Controller series **CMGZ480.M16**
Connector option

Scope of delivery:

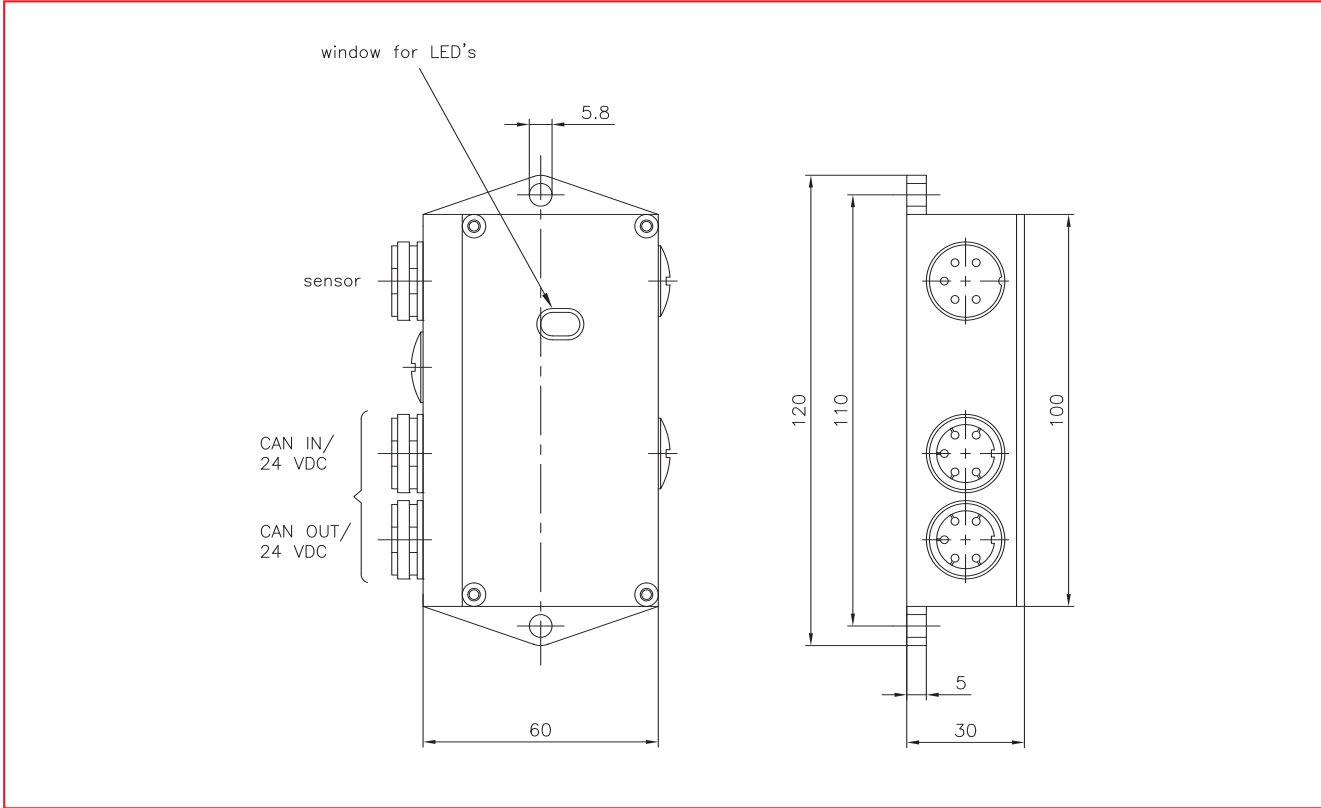
Tension Controller, operation manual

CMGZ 480 • Dimensions in mm



PG-Gland cable connector.

CMGZ 480.M16 • Dimensions in mm



M16 connector option. This version is specially suited for rotating applications e.g. stranding machines.

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