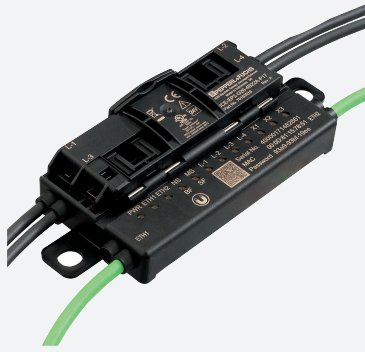




Ethernet G20 Controller ICE-EP2-G20-4B22A-P17

- Multiprotocol capability for PROFINET and EtherNet/IP
- Mounting directly in the support profile
- Control of up to 120 motor rollers per controller
- IIoT-ready thanks to OPC UA and REST API
- Automatic detection and addressing of connected G20 system modules
- Control via PLC or decentralized via integrated ZPA logic

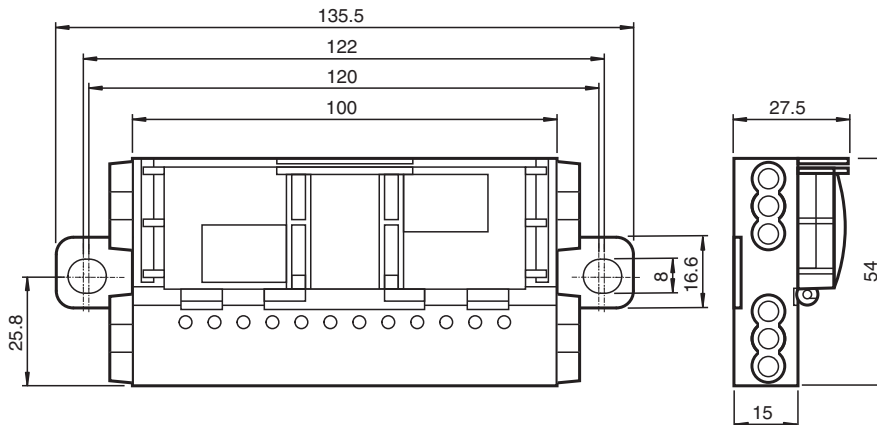
Ethernet G20 MDR controller for 4 lines each with up to 15 G20 MDR system modules



Function

The Ethernet G20 MDR controller enables flexible control of up to 120 DC motor rollers with a 24 V or 48 V supply voltage using a single IP address. The controller offers four connection lines, each enabling connection of up to 15 G20 MDR system modules. Each system module can connect up to two DC motor rollers. Connected system modules are recognized and addressed automatically. Control logic for individual MDRs can be implemented either centrally in a PLC or decentrally in the G20 modules, thanks to integrated ZPA logic. With multiprotocol functionality, the Ethernet G20 MDR controller supports communication with a higher-level PLC via PROFINET or EtherNet/IP. Cloud communication is enabled via OPC UA or the integrated REST API. The compact housing includes integrated cables for Ethernet network connectivity and connection to the G20 system modules. It can be mounted directly onto the carrier rail, and the latching mechanism enables tool-free power supply via flat-cable piercing technology.

Dimensions



Technical Data

General specifications		
Compatible roller motors	See data sheet information ICA-4IO-2M4-G20-B22A-P18	
Indicators/operating means		
LED indication	see manual	
Electrical specifications		
Operating voltage	U _B	21.6 ... 30 V DC, PELV
No-load supply current	I ₀	≤ 100 mA
Operating current	I _B	max. 8.1 A
Nominal voltage	U _N	24 V
Interface 1		
Interface type		Fieldbus

Release date: 2026-04-21 Date of issue: 2026-04-21 Filename: 70183518_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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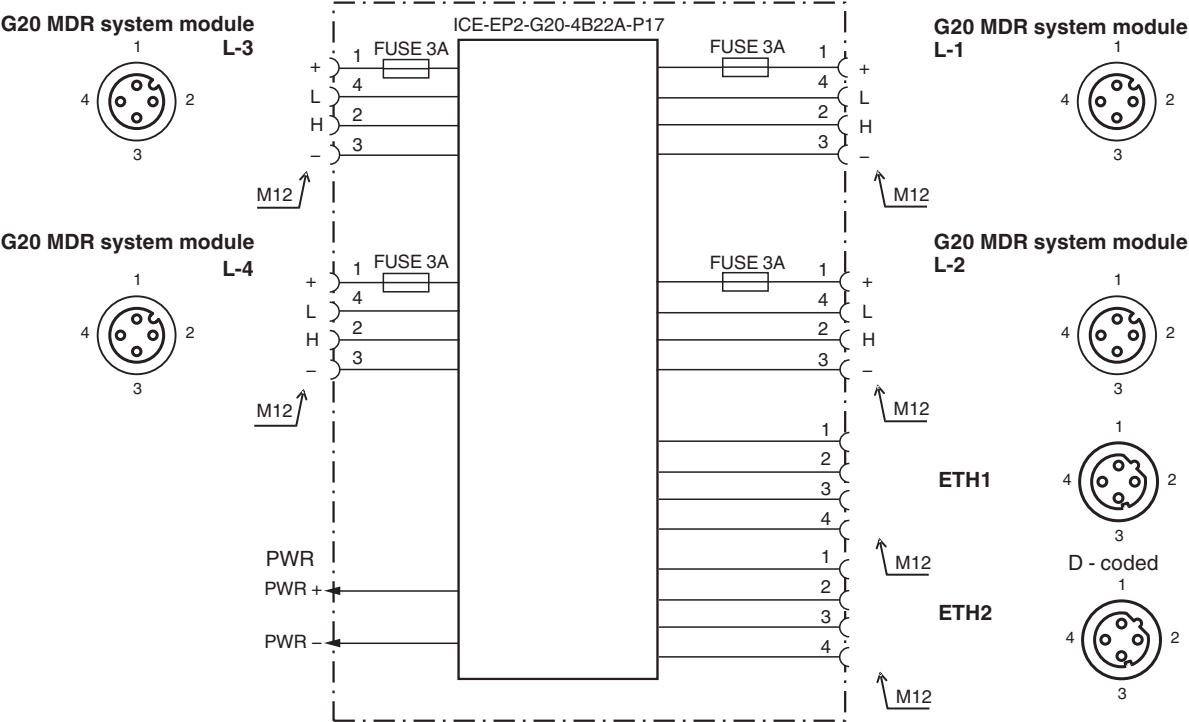
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PEPPERL+FUCHS

Technical Data

Physical	2x M12, D-coded
Protocol	HTTP (REST API) HTTPS EtherNet/IP PROFINET IO
Transfer rate	10 MBit/s / 100 MBit/s , Automatic baud rate detection
Interface 2	
Interface type	Communication interface for G20 motor roller sytem module
Physical	4x M12 connector, 4-pin, A-coded
Load current	max. 8 A ≤ 40 °C max. 5 A ≤ 60 °C
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 EN 55011:2016
Standard conformity	
Degree of protection	EN 60529:2000
Emitted interference	EN 61000-6-4:2007
Noise immunity	EN 61000-6-2:2005
Approvals and certificates	
UL approval	
Application	for use in NFPA 79 applications
UL File Number	E223772
Ambient conditions	
Ambient temperature	-25 ... 60 °C (-13 ... 140 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Relative humidity	85 % non-condensing
Climatic conditions	For indoor use only
Altitude	≤ 5000 m above MSL
Shock and impact resistance	30 g, 11 ms in 6 spatial directions, 3 shocks 10 g, 16 ms in 6 spatial directions, 1000 shocks
Vibration resistance	0.75 mm / 5 g 5 ... 500 Hz
Pollution degree	3
Mechanical specifications	
Degree of protection	IP67 according to EN 60529
Mass	370 g
Dimensions	
Height	27.5 mm
Width	131.5 mm
Length	54 mm
Mounting	2 clips with Ø 8 mm drill hole The module must be secured to a solid, continuous surface using the two lugs
Cable length	1.5 m (L-1, L-2, L-3, L-4) 0.3 m (ETH1, ETH2)
Note	The flat cable routing is designed for 100 actuation cycles

Wiring Diagram



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