

MR-0133

English


Foxtrot 2 - Accessories for basic modules



Product description - basic characteristics

The MR-0133 submodule contains 2x RS-485 interfaces. The internal connection ensures galvanic separation of the interface from the system and power supply circuits. At the same time, the module contains identification circuits. The user has the ability to identify the type of submodule used from the development environment.

Variants

Picture	Order num.	Description	Variant description
	TXN 101 33	MR-0133, 2x RS485, with its own power supply, galvanic isolation	

Operating conditions, product standards

Product standard:	ČSN EN 61131-2:2008 (idt IEC 61131-2:2007) - Programmable control units	Overvoltage category installation:	II, according to EN 60664-1 ed.2: 2008 (idt IEC 60641-1: 2007)
Protection class of electrical object:	III, according to ČSN EN 61140 ed.3: 2016 (idt IEC 61140:2016)	Type of device:	Built in the Tecomat module
IP rating (Ingress Protection) according to ČSN EN 60529: 1993 (idt IEC 529: 1989):	IP20	Type of operation (operating frequency):	Continuous
Operating areas:	Normal, acc. ČSN 33 2000-1 ed.2: 2009 (mod IEC 60354-1:2005)	Ambient temperature operating range:	-20 °C to + 55 °C
Degree of pollution:	1, according to ČSN EN 60664-1 ed.2:2008 (idt IEC 60664-1:2007)	Storage temperature range:	-25 °C to +70 °C
		Relative humidity:	from 10 % up to 95 % without condensation
		Atmospheric pressure:	min. 70 kPa (< 3000m. at sea)

Power supply

Supply voltage, tolerances:	The submodule is powered from the power supply the terminal device in which it is installed.	Galvanic separation of power supply from internal circuits:	No
Maximum power input:	1,2 W	Insulation voltage of galvanic separation:	1000 VDC

Size and weight

Product dimensions (width x height x depth):	15,5 × 42 × 3,5 mm	Weight approx.:	25 g
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COM - Communications - Serial Ports

Number of fixed built-in RS-485 ports:	2	Signal output level:	typ. 3 V
Max. baud rate:	1 MBd	Max. length of connected line:	1200 m
Note on max. Speed:	If the RTS jumper is connected to AUTO, the maximum speed will be 200 kBd, otherwise 2 MBd.	Note on cable length:	The maximum length applies to twisted and shielded cable and communication speed max. 120 kBd.
Receiver sensitivity:	min. ± 200 mV		

Installation

Attention!

Because the module contains semiconductor components, it is necessary to follow the principles for working with electrostatic sensitive components when handling the removed cover. It is not allowed to touch the printed circuit boards directly without protective measures.

Connection

Description

Terminal communication interfaces are typically equipped with connectors. The connection of the connectors is specified in the documentation of the respective system where the submodule is used.

Module operation

Module configuration

Submodules with an RS-485 interface contain solder jumpers, which are used to connect a terminating resistor network. They are marked "BT1" for the first channel and "BT2" for the second channel. By default, submodules are shipped with jumpers disconnected.

Warranty

Generally

Warranty and complaint conditions are governed by the Terms and Conditions of Teco a.s.



Warning

All conditions of this documentation must be met before turning on the system. The system must not be put into service unless it has been verified and confirmed that the machinery of which the Foxtrot system is a part complies with the requirements of Directive 89/392 / EEC, in so far as it applies to them. Documentation subject to change.