

RFox master

Type	DI	DO	AI	AO	Comm
RF-1131					TCL2, RFox

Basic features

- Module is the gateway of Foxtrot system into the wireless data network RFox. Module is the master of bidirectional communication with the slaves with confirmation of each data transmission. It operates in the licence free frequency band 868 MHz.
- As coordinator/master of data network RFox module enables to connect up to 64 wireless modules with inputs and outputs to Foxtrot system.
- Module RF-1131 is not included in the limit of max. 10 modules on TCL2 bus.
- Module is operated on low power up to 10mW.
- Master module continuously monitors the network to keep the actual status of all slaves. This status image is available for central module anytime. Vice versa the master module fulfills commands of central module and writes new statuses into slave modules.

Connection

- Module is designed as standard communication module at TCL2 bus.
- Mechanical design is suitable for installation on DIN rail.
- Antenna or cable can be connected on module directly with SMA connector.

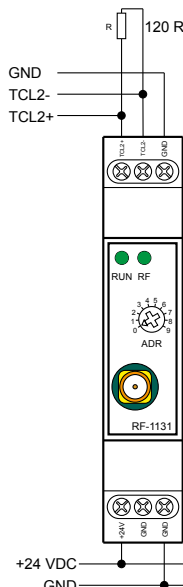
Use

- Creation of wireless control system with centralised processing of signals and commands.
- Creation of wireless and wire system combination.
- Suitable for reconstruction of buildings in places, where we cannot install the electrical installation bus.
- For any application, where digital or analog values needs to be wireless transferred.



RF-1131

Connection example



Communication

System I/O bus	1 x TCL2 (RS-485, 345 kbit/s) up to distance 300 m, without branches, impedance terminating 120 Ω
Wireless communication	RFox
Frequency	868.35 MHz
Signal transfer	Both directions, with confirmation, with routing
Range	About 25 m in building, 100 m in free space

Operating conditions

Operating temperature	-20 ÷ +55 °C
Storage temperature	-30 ÷ +70 °C
Electric strength	according EN 60950
IP Degree of protection IEC 529	IP 10B
Overvoltage category	III
Degree of pollution IEC EN 60664-1:2004	2
Working position	Any
Installation	on DIN rail
Connection	screw terminals, Antenna – SMA connector
Conductors cross-section	max. 2.5 mm ²

Dimensions and weight

Dimensions	90 x 18 x 65 mm
Weight	75 g

Power supply

Power supply voltage (SELV)	+24 V DC/30 mA
Allowed range	-15% +25% (20.4 ÷ 30 V DC)
Max. input power	2.5 W
Galvanic isolation	No

Order number

TXN 111 31	RF-1131, RFox – Communication module, Master of wireless network
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