

Type	DI	DO	AI	AO	Comm
C-RI-0401S	See AI		2 AI/DI, 1 × light sensor		CIB, IR

Basic features

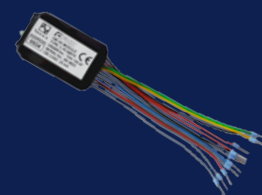
- Module is combined module with primary function of receiver and transmitter of IR commands.
- Module can learn IR commands of remote controllers of different devices – air-conditioning unit, audio/video devices etc. and store them in module memory. Subsequently, these commands can be reproduced by module transmitter on the base of signal from system.
- This is the way how to replace manual control by Foxtrot system.
- Module contains input for the light sensor.
- Module contains 2 universal AI/DI inputs for temperature sensors or potential-free contacts.
- These inputs can operate also as double balanced inputs for connection of security sensors.
- Status is indicated by LED on module.

Connection

- Module is connected to two-wire CIB bus that provides both communication and power supply of module.
- Module is designed mostly for assembly into standard installation boxes in the wall or under device cover.
- Inputs, outputs and CIB bus are connected by stranded wires with sleeves.
- Module can be individually customized and built-in into the covers of wall switch design under the code C-RI-0401R-Design. Standard design is Time by ABB.

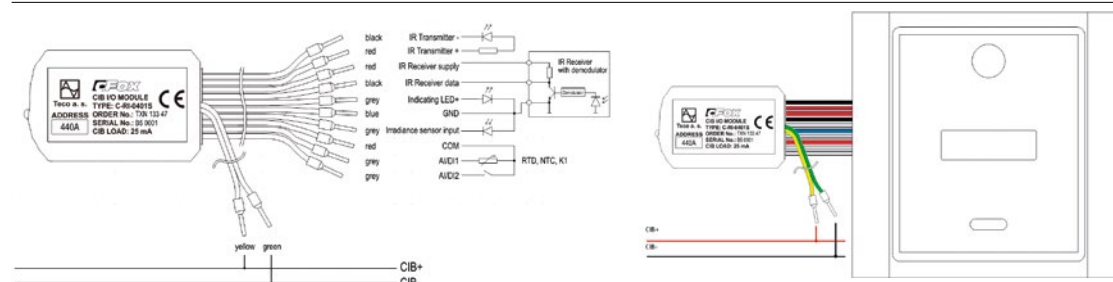
Use

- Integration of infra red remote controlled devices. For example:
 - Interior air-condition units
 - audio, video
 - consumer electronics with IR control
- Measurement of light in interiors.
- Light intensity control in interiors.
- Specific sequence of actions can be defined in the system to expand the basic features of the original IR remote controller.



C-RI-0401S

Connection example



IR receiver

Number of receivers	1
Galvanic isolation	No
Power supply of receiver-demodulator	3.3 V
Pilot frequency of demodulator	36 kHz

IR transmitter

Number of transmitters	1
Galvanic isolation	No
IR transmitter type	IR LED ($I_{f,max} = 100 \text{ mA}$) + resistor according I_f
Power supply of transmitter	3.3 V
Short-circuit protection	No

Input for light sensor

Number of inputs	1
Galvanic isolation	No
Sensor type/range/input error	photodiode, 0 – 50 000 lx / <5%

Operating conditions

Operating temperature	–20 .. +55 °C
Storage temperature	–25 .. +70 °C
Electric strength	according EN 60730
IP Degree of protection(IEC 529)	IP 10B
Overvoltage category	II
Degree of pollution IEC EN60664-1:2008	1
Working position	any
Installation	into installation box, under cover
Connection of CIB, AI/DI	Wires 0.5 mm ² , grouped on 2 connectors inserted into module

Analog/digital inputs

No. of inputs	2
Galvanic isolation	No
Resolution	12 bit

Measurement ranges

Sensor type	Range
Potential-free contact	on/off
Balanced input (security system)	broken link/0/1/tamper
Pt1000	–90 .. 320 °C
Ni1000	–60 .. 200 °C
NTC 12k	–40 .. 125 °C
KTY81-121	–55 .. 125 °C
Resistance	0 – 160 kΩ
Analog input error	< 2 %

Dimensions and weight

Dimensions	55 × 32 × 13 mm
Weight	8 g

Power supply

Power supply and communication	24 V (27 V) from CIB bus
Typical load	25 mA
Maximal input power	0.5 W
Internal protection	No

Order number

TXN 133 47	C-RI-0401S; CIB input module for sensors 1 × IR, 1 × lighting, 2 × temperature, 1 × output for IR transmitter
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Variant:
C-RI-0401R-Design