

CIB – Built-in module of combined inputs/outputs, built-in

Type	DI	DO	AI	AO	Comm
C-IT-0908S	6×DI	8×LED driver	2×AI/DI, 1×AI		CIB

Basic features

- Module is designed for direct connection of potential-free contacts, resistance sensors and LED indicators to the CIB bus.
- Inputs IN1-IN6 are only digital, two inputs IN7-IN8 can be configured as analog or digital and input IN9 is only analog input.
- Firmware of module linearizes characteristics of several types resistance sensors, optimizes accuracy of measurement and recalculates resistance into temperature in Celsius degree, which is communicated via CIB bus into central module.
- Inputs in digital mode can give the binary status 0/1 – on/off or it can work as double balanced inputs evaluating 4 statuses broken wire/off/alarm/tamper of security detectors.
- Status is indicated by LED on module (RUN).

Connection

- Module is connected at CIB bus by wires grouped at two connectors, that are inserted into module.
- CIB bus, contact inputs, Resistance Temperature Detectors

(RTD) and LED indicators are connected by stranded wires with sleeves. These wires are grouped at two connectors, inserted into module.

Use

- Module can be used for connecting a combinations of wall switches with different combinations of contact and resistance sensors and LED indicators with common cathode (PNP outputs) or common anode (NPN outputs).
- Module can be used to connect low stroke wall switches. JUNG: A2224/48, CD2224/48, LS2224/48, AL2224/48 and Flat Design with modules 3212TSM and 3224TSM, 3236TSM, 3248TSM
GIRA: line 2001xx or 2003xx for designs System55 and E22
- Module can be used as integrated temperature sensor of up to 3 temperatures.
- Module can be used as integrated driver of up to 8 LED indicators or other loads with maximal current 3 mA.



C-IT-0908S-PNP
C-IT-0908S-NPN

Examples of wall-switches connectable via C-IT-0908S



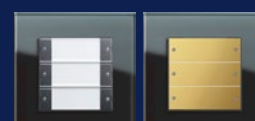
JUNG Flat Design
(3248TSM)



JUNG design: LS, A

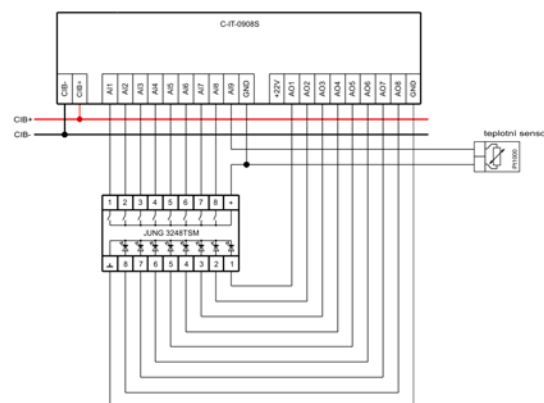
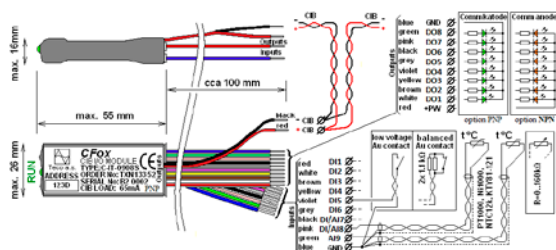


JUNG design: AL, CD



GIRA System55 and E22,
(Transparent, Stainless steel,
Aluminium, Brass, Bronze)

Connection example



Connection of JUNG wall switch with 8 push-buttons and 8 LED indicators

Analog/universal inputs

Number of digital inputs	6×DI (IN1–IN6)
Number of universal inputs	2×AI/DI (IN7–IN8)
Number of analog inputs	1×AI (IN9)
Galvanic isolation	No

Sensor type	Range	Basic accuracy
Potential-free contact	0/1	0 for >1.5 kΩ 1 for <0.5 kΩ
Balanced input	Interrupted wire /0/1/tamper	for 2×1k1 balanced resistance
Pt1000	–90 .. 320°C	0.5%
Ni1000	–60 .. 200°C	0.5%
NTC 12k	–40 .. 125°C	0.5%
KTY81-121	–55 .. 125°C	0.5%
Resistance	0 – 160 kΩ	0.5%

Operating conditions

Operating temperature	0 .. +70 °C
Storage temperature	–25 .. +85 °C
Electric strength	according EN 60730
IP Degree of protection(IEC 529)	IP10B
Overvoltage category	II
Degree of pollution according to IEC EN60664-1:2004	1
Working position	any
Installation	into installation box, under cover
Connection of inputs, outputs and CIB	Wires 0.5 mm ² grouped on 2 connectors inserted into module

Binary outputs for LED indicators

Number of outputs	8×PNP open collector, 8×NPN (with suffix.01)
Galvanic isolation	No
Polarity of LED connection	TXN 133 52: Common cathode TXN 133 52.01: Common anode
Max. voltage applicable	27 V
Max. output current	3 mA

Dimensions and weight

Dimensions	55×26×20 mm
Weight	7 g

Power supply

Power supply and communication	24 V (27 V) from CIB bus
Nominal/max. load	30 mA/65 mA
Typical/max. input power	0.8 W/1.6 W
Internal protection	No

Order number

TXN 133 52	C-IT-0908S-PNP; CIB, 6×DI, 2×AI/DI, 1×AI (contact or resistance), 8×LED driver 3 mA, open collector PNP
TXN 133 52.01	C-IT-0908S-NPN; CIB, 6×DI, 2×AI/DI, 1×AI (contact or resistance), 8×NPN LED driver 3 mA