# CIB – for connection of security and access detectors

Туре	DI	DO	AI	AO	Comm
C-WG-0503S	3 DI (TTL)	3×DO (NPN)	2 AI/DI		Wiegand, CIB

# **Basic features**

- Universal module with combination of inputs, outputs, Wiegand communication line and integrated 12V DC power supply. This combination is suitable for connection of security, fire and access detectors on CIB bus in projects where security system does not need be certified.
- Inputs IN1-IN3 on TTL level allows to connect connection external device via Wiegand interface to enable integrate the RFID card readers, security keyboard and similar devices via CIB
- Inputs IN1-IN3 can be used as digital inputs on TTL level as • alternative
- Module is equipped by two universal inputs IN4, IN5, that allow to connect standard security detectors with relay outputs via simply or double balanced loops.
- Module has integrated power supply 12V DC to supply detectors and other devices usually designed for that voltage.
- Module is further equipped by semiconductor outputs (NPN with open collector), which may be used as free programmable actuators according your opinion. For example for LED signaling, switch on the buzzer or opening door by external relay.

# **Connection example**

16mi max.

# · Module is in miniature built-in design. In extreme cases may be built-in into detectors of security systems.

· Operation of module is indicated by LED diode.

# Connection

- Module is connected by two stranded wires to CIB, which provides both communication and power supply of the module.
- Detectors, readers with Wiegand interface and other devices are connected by wires available on connector, which is inserted into module.

# Use

- Sensing of standard or special detectors like PIR motion detectors, detectors of smoke, glass break etc.
- Connection of device communicating via Wiegand protocol.



**Example of devices** connectable to module C-WG-0503S



**RFID readers SAMSUNG SSA** R1000, SSA R1100 and reader with keyboard SSA R2000



RFID readers Aktion AXR-100, AXR-200, AXR-300



# **PIR detectors Texecom** Security systems



Fire detectors Texecom Fire alam systems

# Order number

FXN 133 53	C-WG-0503S, CIB, 2×AI/DI balanced, 3×DO (NPN), 1×Wiegand/3×DI(TTL); output 12 V DC, connection of security system
1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	sensors

Analog/combined inputs Number of digital inputs 3×DI (IN1–IN3), TTL 5 V

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	3.9 kΩ pull up resistor
Number of universal inputs	2×AI/DI (IN4–IN5)
Galvanic isolation	No
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Sensor type	Range	Basic accuracy
Potential-free contact	0/1	0 for >1.5 kΩ
Fotential-free contact	0/1	1 if <0.5 kΩ
Balanced input	broken wire	for 2×1k1
	/0/1/tamper	balancing resistance
Pt1000	−90 320°C	0.5%
Ni1000	−60 200°C	0.5%
NTC 12k	-40 125℃	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	11
Degree of pollution IEC EN60664-1:2008	1
Working position	any
Installation	into installation box, under device cover
Connection of CIB, inputs,	Wires 0.5mm <sup>2</sup> . grouped on
outputs	connenctor inserted into module

### **Binary outputs**

Number of outputs	3×NPN, open collector			
Galvanic isolation	No			
Polarity of LED connection	Common anode			
Max voltage:	30 V			
Max. output switched current	30 mA			

### Communication

Installation bus	CIB
Communication with reader,	Type of protocol: Wiegand
keyboard	Format: 26 bits, 34 bits, 42 bits,
	40 bits transparent
	Number of bytes: 5, 4, 3, 5

# Power supply output 12 VDC

V DC
) mA

# Dimensions and weight

Dimensions  $55 \times 26 \times 16 \,\text{mm}$ Weight 7g

# 

Power supply	
Power supply	24 V (27 V) from CIB
Max. load	85 mA
Typ./Max. input power	0.5 W/2.3 W
Internal protection	No





TXN 133 53			5		
	sensors				