

TEMALINE

NEW WIEGAND

MODULE

Reader and I/O management device

The TK_S014M Wiegand module enables the connectivity of any standard device which uses the industry's standard wiegand protocol, including biometrics.



The module also enables step-by-step migration of current installations - saving time as they move to new Temaline access control technologies and benefits.

WHAT'S NEW

Connectivity supervision

This new device has the ability to monitor the Wiegand reader's connection status. An alarm is sent when the connection is lost due to a cut of the reader's power connection, due to the reader's absence or in case of a short circuit. This provides higher security as the connection is supervised.

Tampering supervision

An alarm is sent when the reader is opened or disconnected from the wall, and in case of a short or cut on the tamper wire.

BENEFITS

Easy to install

The direct LON connection and embedded I/O simplifies installation and engineering- while also reducing the number of system devices.

Flexibility

Select the reader you prefer in terms of design or re-use existing devices for cost-saving purposes.

Investment protection

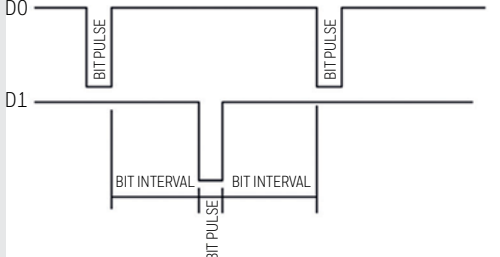
- As your network grows, the solution can scale and devices can be re-used.
- Coexist on systems using TK_S014
- Supported by both TS_AC01 and TS2 controllers

FEATURES


- Standard DIN/Omega RAIL 35
- TK_S014M supports Two Wiegand card readers and the I/O associated with a single door
- Echelon LON device
- Tamper-proof housing
- Management of the Wiegand readers tampers
- Management of external device tampers
- Internal I/O for door control
- Supervised inputs
- Environment-friendly, RoHS compliant
- Identifies failures in connected readers

Honeywell

TK_S014M TECHNICAL SPECIFICATIONS

		PARAMETER	VALUE
TECHNICAL		DC power supply	12V +/-15% 70mA [nominal internal][up to 2.5A when driving power loads]
		Lonworks® connection	Unshielded twisted-pair cable in free topology connection FT3150 smart transceiver 78Kbps
		Controlled inputs	Type: Controlled on 4 states (open, close, cut, short) Number: 2 Supply Voltage: 0V...+10V Supply current: 0...3 mA Voltage (absolute max): -24V...+40V Wire length connection: total resistance < 10 Ohm – not shielded Min detection time: 250 ms
		Readers tamper inputs	Type: Controlled on 3 states (normal, alarm, short) Number: 2 Min detection time: 250 ms
		Wiegand inputs	Type Wiegand (normally high) Number: 2 Voltage: 0V...+5V nominal (TTL) +14V Max Timing BIT Pulse width: min 50us – max 10ms BIT Interval time: min 500us – max 20ms  Wire type and length connection: see the reader installation manual – usually shielded
		Power supply output for readers	Voltage: 12V +/-15% (line voltage) Current: 200mA Max (per channel) Wire length connection: it depends on cable diameter, reader current sink and reader min power supply– usually shielded – see reader installation manual. Example: Cable 0,35mmq: Resistance 52 Ohm/Km Reader: V min 10 VDC Current max 50mA Power supply min : 12V – 15% = 10,2V Voltage drop max : 10,2 – 10 = 0,2V Cable resistance: Voltage drop / reader current max = 0,2 / 50mA = 4 Ohm Cable length (m): Resistance / (cable resistance / 1000) / 2 = = 4 / (52 / 1000) / 2 = 38 mt
		Outputs to control readers LEDs and buzzers	Type: Open Collector Number: 3 each Wiegand channel Function: Red LED, Green LED, Buzzer Voltage: 0V...+14V max Current: 80mA Max Wire length connection: see installation manual – usually shielded
		Outputs	Type: Power Open Collector (Drain) Number: 2 Voltage: 10V...+14V (internal Power supply) Voltage (absolute max): 10V...+30V (from external Power supply) Current: 1,2A [5A / 0,5 sec peak max – inductive load] Normality: NO or NC via JP1 and JP2; Default = NO Wire length connection: it depends on cable diameter, load current sink and load min power supply – Not shielded

TK_S014M TECHNICAL SPECIFICATIONS

PARAMETER		VALUE
PHYSICAL	Mounting	Standard DIN/omega rail
	Size (LxWxH)	105 x 93 x 61 mm
	Weight (including carton box)	0.2 kg
	Anti-tampering	1 internal switch (against opening); possibility to connect a further external tamper (not provided)
ENVIRONMENTAL	Environmental temperature for correct operation	-10 ÷ 55°C
	Storage temperature	-20°C ÷ 70°C
	Storage and operating humidity	0 ÷ 90% not condensing
CERTIFICATIONS	Standards	Electromagnetic Compatibility Directive (2014/30/EU) General Product Safety Directive (2001/95/EC) RoHS EU Directive (2011/65/EU) 

ORDER CODE	DESCRIPTION
TK_S014M	Advanced LonWorks Wiegand Interface with 2 supervised digital input and 2 digital output. To be connected to TS_AC01 or TS2.

Honeywell reserves the right, without notification, to make changes in product design or specifications.

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FUTURE
IS
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WE
MAKE IT**

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