



An advanced world of intelligent gas detection system management





# A world of control technology

- High precision, intelligent control
- Master/voted alarm options
- High packing density
- Flexible I/O configuration
- Relay output options

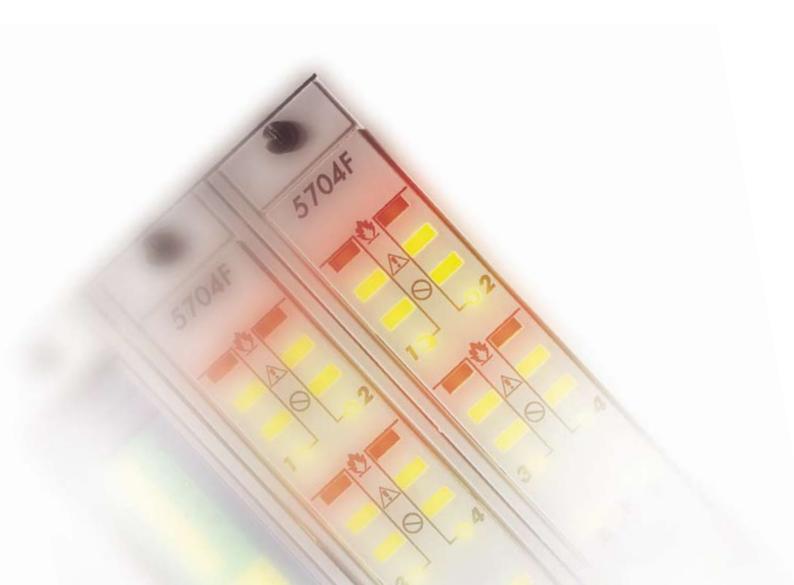
# System 57 - the heart of fire and gas control

For almost half a century, our gas detection systems have provided the safety needed to protect plant and personnel from flammable and toxic gas hazards. Across the globe, they are installed in a wide variety of applications ranging from simple small scale systems to some of the world's largest fully integrated fire and gas detection systems.

To fulfil the unique requirements of each individual application requires a control system with unlimited flexibility. The modular design approach employed by the System 57 enables you to define, in detail, the unique control and alarm parameters to fulfil your requirement.

System 57 accepts inputs from flammable and toxic gas detectors, a large range of flame, smoke and heat detectors and manual call points. Available outputs include relays, analog signals and industry standard digital protocols. Packaged in either wall mounting cabinets or panel mounting racks, System 57 can be used stand alone or integrated into the heart of a fire and gas system.

Whatever the application, large or small, our sales engineers and customer service representatives are available to discuss your requirements and recommend the control system that's best for you.







### 1 5701 Gas Control Card

This provides a single channel control function within a 1" wide package.

- Independent single channel operation
- Plug-in input and output options

# 2 5704 Gas Control Card

This provides four channels of control function within a 1" wide package.

- · 4-channel operation
- · Choice of output options
- Channel displayed: automatic sequencing, highest reading, combination or manual channel display selection options

## 3 5704F Fire Control Card

This provides four zones of fire control within a 1" wide package.

- 4 zone fire card
- 2 line monitored outputs
- Up to 15 cards in a 19" rack

### 4 5704FS Fire Status Panel

Each rack that contains a 5704F fire card has one 5704FS fire status panel fitted. The 5704FS fire status panel provides common display and alarm indication for all of the fire cards in a rack as well as a local audible sounder. It also provides common push buttons for executing specific fire card related functions.

- Common fire control card push button functions
- Common display and alarm indications
- Local audible sounder

## 5 Master Alarm Update Panel

The master alarm update facility can be enhanced by adding the optional master alarm update panel.

- 1" wide panel
- · Audible and visual alarm
- Reset and accept push button
- Provides update facilities without the need for external wiring

## 6 Power Supply Units

The power supply units are rack mounted to complement the System 57 systems

- 1U high, 19" & 1/2 19" units
- Upgradeable to 200W in 50W blocks
- Auto sensing input voltage: AC or DC
- Regulated DC output
- · Over voltage and overload protected

# 7 Engineering Card

The System 57 engineering card provides full maintenance and set up facilities for each channel card. The front panel has a series of tactile feedback push buttons that allows checks of the alarm levels and performance to be carried out for each channel. A real-time 'on board' clock provides calibration history and calibration overdue reminder functions.

- Security protected
- User friendly operation
- Calibration facility
- · Command accept/ abort facility
- Channel card set up capability







Catalytic input board



Analog input board



















Blank panel





# 8 Engineering Card Modules

A number of plug-in options for the extended system capabilities:

### 8a Serial Communications Module

The serial communications module provides a gateway between the System 57 rack and a remote device (DCS, PLC or SCADA package) to allow the continuous monitoring of each channel's operation and condition as well as allowing remote configuration of the system operation.

- Industry standard MODBUS RTU protocol
- RS485/422/232 standard
- Bi-directional
- · Electrically isolated communications bus
- SCADA graphics package available

### 8b RS232 Printer Driver Module

The printer driver module provides a serial output in the event of a gas alarm, fault or user intervention.

- · RS232 ASCII event data
- Selectable print criteria
- Time and date stamping
- · Electrically isolated communications bus

### 8c Master Alarm Update Module

The alarm update module provides a common alarm indication with new alarm event update.

- 2 Outputs: 1 relay, 1 Darlington
- Selectable operation: pulsed, continuous
- Alarm accept input
- · Common alarm reset input
- Complies with ISA 'M', DIN 19 235
- Optional master alarm update panel

# 9 Interface Cards

There are 9 versions of interface card available (5 for 5701 Gas, 2 for 5704 Gas and 2 for 5704 Fire Control Cards). The interface cards provide the link between the various fire or gas detectors and the control cards.

- Sensor interface
- · Flexible relay options
- · Individual control card power option
- High integrity operation option
- Accepts ≤ 2.5mm/14 gauge cable

### 10 Rack Assemblies

System 57 racking units provide mounting options for the System 57 Control Cards and Interface Cards. The racks are available complete with a DC input card and an engineering card.

- 3U high format
- · Front and rear wiring options
- Half and full 19" versions
- Up to 64 channels of gas detection or 60 channels of fire detection in a single rack, or a combination of both.

### **Cabinet Assemblies**

The System 57 cabinets provide a convenient and compact mounting of the rack assemblies and PSUs

- · Wall mounting half and full 19" versions
- IP54/Nema 12 cabinet protection rating
- Preformed knock-out gland entries
- Accessory mounting plate

# **DC Input Card**

The DC input card is connected directly to the engineering card and provides the connection point for power supplied to the whole rack.

The field wiring from the engineering card modules is also on this card.

- Common power supply wiring point
- · Reverse polarity and short circuit protection
- · Multi-supply input capability

# **Technical Summary**





Interface Card Selection Table	5701 Gas Interface Card Type				5704 Gas Interface Card Type		5704F Fire Interface Card Type		
interface card defection lable	Field Interface	Double SPCO	Triple SPCO	Triple DPCO	High Integrity	Quad Relay	Relay Interface	Hex Relay	Relay Interface
Sensor Connection	•	•	•	•	•	•	•	•	•
No relays	•								
3 SPCO Relays		•							
5 SPCO Relays			•						
8 Changeover Relays				•					
8 Changeover Relays*					•				
4 SPCO Relays**						•			
12 SPCO and 4 SPST Relays**							•		•
6 SPCO Relays**								•	
24V in	•	•	•	•	•	•	•	•	•
24V out	•	•	•	•	•				
Analog ***	•	•	•	•	•	•	•		
Remote Inhibit	•	•	•	•	•	•	•		
Remote Reset	•	•	•	•	•	•	•		
Remote Accept, Reset, Silence								•	•
2 x line monitored outputs								•	•

<sup>\* 8</sup> relays (7 fully configurable, 1 for fault alarm). Configurable master alarm functions or a mixture of master and individual alarms. The relay states are monitored by the control card to ensure correct operation of the relays. \*\* Fully configurable for individual or master alarms and relay operation. \*\*\* With optional analog output module fitted to control card.

5704F Indications		Indication		
Function	Colour	Continuous	Flashing	
5704 Fire Card				
Fire	Red	Fire condition on zone (accepted)	New fire condition (not accepted)	
Fault	Yellow	Fault condition on zone (accepted)	New fault condition (not accepted)	
Inhibit	Yellow	Zone inhibited	-	
Output channel	Yellow	Output channel in fault condition (accepted)	New output fault condition (not accepted)	
Selected zone	Yellow	Active when zone has been accepted	-	
Card fault	Yellow	Card fault (accepted)	Card fault (not accepted)	
Power	Green	Healthy	-	
5704 Fire Status Panel				
Master fire	Red	Fire condition on at least one zone (accepted)	New fire condition (not accepted)	
Master fault	Yellow	Fault condition on at least one zone (accepted)	New fault condition (not accepted)	
Master inhibit	Yellow	At least one zone inhibited	-	
Master silence	Yellow	At least one output silenced	-	
Master walk test	Yellow	At least one zone in walk test mode	-	
Earth fault	Yellow	Earth fault (accepted)	New earth fault (not accepted)	
Power	Green	Healthy	-	
Audible Mode		Indication		
Continuous		New fire condition (not accepted)		
1s ON, 1s OFF		New fault condition (not accepted)		
1s ON every 10s		Fire signal on at least one zone (accepted)		
1s ON every 30s		Fault signal on at least one zone (accepted)		

# **Technical Summary**

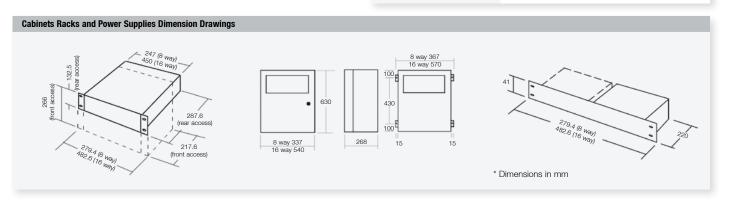




5704F Fire Card Specification	5704 Fire Card	5704 Fire Status Panel	
Audible Sounder	-	60dB at 1 meter	
Remote Facilities	accept, reset and silence	-	
Supply Voltage	21V to 32Vdc	18V to 32Vdc	
Power Consumption	2W	0.75W	
Operating Temperature	-5°C to +55°C		
Storage Temperature	-25°C to +55°C		
Operating Humidity	20-90% RH (non condensing)		
Dimensions	3U high x 25mm wide		
Weight	175g	75g	
Approvals	EN50270		

Cabinets Racks and Power Suppl	lies Specification	
Cabinets		
Material	Mild Steel	
Colour	RAL-7015 - slate grey	
Hinge	Left hand side	
Lock	Right hand side	
Rack Mounting	8 way: half 19" profile.	
	16 way: 19" universal profile	
Pre-formed Gland Entries	8 way: 2 x M25; 2 x PG16; 8 x M20; 6 x PG11	
	16 way: 3 x M25; 4 x PG16; 16 x M20; 10 x PG11	
<b>Environmental Protection</b>	IP54	
Mounting Plate	8 way: 120mm high x 220mm wide	
	16 way: 120mm high x 440mm wide	
Earthing Points	Main Cabinet: M6. Door: M5.	
Mounting Bracket Holes 10mm diameter		
Weight	8 way: 10.0kg	
	16 way: 13.5kg	
Racks		
Material	Galvanized Steel	
Colour (Mounting Brackets)	RAL-7015 - slate grey	
Mounting	8 way: half 19" profile.	
	16 way: 19" universal profile	
Earthing Point	M5 stud	
Mounting Bracket Holes	6mm diameter	
Supply Voltage	oltage 18 to 32Vdc	
Power Consumption 1.5W		
Operating Temperature	-5°C to +55°C	
Storage Temperature	-25°C to +55°C	
Operating Humidity	0-90%RH (non-condensing)	

Racks cont.			
Weight	8 way front access 3.9kg		
(inc. Engineering Card & DC input Card)	16 way front access 5.8kg		
	8 way rear access 2.8kg		
	16 way rear access 4.1kg		
Approvals	EN50270		
Power Supplies			
Supply Voltage	ac: 85V to 264V; 47Hz to 440Hz		
	dc: 110V to 340V		
Inrush Current	typically 30A at 230V input for 50W full load		
Output Voltage	24Vdc ± 10%		
Power Supply Rating	8-way: 50W upgradeable to 100W		
	16-way: 50W upgradeable to 200W		
Overload Protection	Operates at more than 105% of rating. Recovery automatic.		
Overvoltage Protection	Operates at more than 115% of rating		
Mounting	8 way: half 19" profile.		
	16 way: 19" universal profile		
Earthing Point	M5 stud		
Mounting Bracket Holes	6mm diameter		
Operating Temperature	-25°C to +55°C		
Operating Humidity	20-90%RH (non-condensing)		
Weight	8 way,50W 0.9kg		
	16 way, 50W 0.96kg		
	subunit: 815g		
	50W module 230g		
Colour	Front: RAL-7015- slate grey		
	Body: Black anodize		
Approvals	EN50270		



# **Technical Summary**





5701/4 Gas Card Specification			
Control Card	5701 Control Card	5704 Control Card	
Back lit LCD	Bar graph+peak reading, digital, alphanumeric	Bar graph+peak reading, digital, alphanumeric	
Front Panel Facilities	Red LED: A1, A2, A3 Yellow LED: fault, inhibit Green LED: power Push button: alarm reset/card select	CH1-4 LEDs: A1, A2, A3, fault, inhibit per channel Attn LED: card fault, update alarm, alarm test Green LED: power Push button: alarm reset/card select	
Remote Facilities	Inhibit and remote alarm reset	Inhibit and remote alarm reset	
Supply Voltage	18V to 32Vdc	18V to 32Vdc	
Power Consumption	Catalytic: 3.75W 4-20mA: 3.25W	Catalytic: 12.8W 4-20mA: 8.4W	
Display/Alarm Point	Linearity: 1% fsd Repeatability: 1% fsd	Linearity: 2% fsd Repeatability: 2% fsd	
Electronic Drift	Less than 2% / 6 months	Less than 3% / 6 months	
Operating Temperature	-5°C to +55°C	-5°C to +55°C	
Storage Temperature	-25°C to +55°C	-25°C to +55°C	
Operating Humidity	20-90% RH (non condensing)	20-90% RH (non condensing)	
Dimensions	3U high x 25mm wide	3U high x 25mm wide	
Weight	165g	165g	
Approvals	EN50270	EN50270	
Catalytic Bridge Input			
Drive Method	Constant current	Constant current	
Current Range	70mA to 283mA	90mA to 315mA	
Full Scale Range	15mV to 600mV	15mV to 300mV	
Maximum Line Resistance	40 ohms at 250mA (including sensor)	40 ohms at 200mA (including sensor)	
4-20mA Input			
Loop Powered Voltage	23V ± 5% isolated	24V ± 5% isolated	
Sensor Configuration	current sink or source	current source	
Signal Measurement Range	0 to 25mA	0 to 25mA	
Maximum Loop Resistance	500 ohms (including sensor)	500 ohms (including sensor)	
Analog Output Option			
Measurement Signal Range	0 to 20mA or 4 to 20mA	0 to 20mA or 4 to 20mA	
Linearity From Input	Better than 2% fsd	Better than 2% fsd	
Repeatability From Input	Better than 1% fsd	Better than 1% fsd	
Configuration	Isolated current sink or source (with external supply)	Isolated per card for current sink or source (with external supply)	

Interface Card Specification	5701 Interface Relay Cards	5704 Interface Relay Cards	5704F Interface Relay Cards
Relay Contacts	5A at 250Vac/32Vdc (non-inductive)		
Relay Operation	selectabl	le- latching/non-latching, normally energized/ de-e	energized
Power Consumption	Field Interface card 0.0W	Quad Relay Interface 1.7W	Hex Relay Interface 2W
	Double SPCO card 0.8W	Relay Interface Assembly 6.5W	Relay Interface Assembly 6.5W
	Triple SPCO card 1.0W		
	Triple DPCO card 1.6W		
	High Integrity card 1.7W		
Terminals		accepts up to 2.5mm² (14AWG) cable	
Operating Temperature	-5°C to +55°C		
Storage Temperature	-25°C to +55°C		
Operating Humidity	20-99% RH (non condensing)		
Weight	Field Interface card 95g	Quad Relay Interface 230g	Hex Relay Interface 250g
	Double SPCO card 155g	Relay Interface Assembly 500g	Relay Interface Assembly 500g
	Triple SPCO card 205g		
	Triple DPCO card 245g		
	High Integrity card 255g		
Approvals		EN50270	







### **Control Cards**

The System 57 offers unrivalled flexibility with both Fire and Gas control cards available in the same rack.

### **Gas Control Cards**

The System 57 gas control cards provide display and alarm facilities for the full range of our gas detectors.

Their concise, back lit, multi-part LCD displays the gas reading and status in both analog bar graph and digital numeric forms. In addition, there is an alpha numeric message section to give sensor (and engineering function) status.

There is a choice of either the single channel 5701 or the four channel 5704 gas control cards. Each card has two input options; one is for catalytic bridge type while the other is for 4 to 20mA sensors or transmitters.

- 3 levels of alarm
- Options of individual, zoned, voted, master, time delayed, update and rate of rise alarm facilities
- Clear 4 part LCD display
- Peak reading facility
- Sensor performance monitoring

#### **Fire Control Cards**

The 5704F Fire control cards provide display and alarm facilities for a wide variety of fire detection products and provides up to four fire zone inputs compatible with most flame, smoke and heat detectors and manual call points. The status of each fire zone is individually displayed by high intensity LEDs.

In addition, each card has two line monitored alarm output circuits.

Both Fire and Gas control cards can be freely mixed in a rack.

- High intensity LED indications
- Up to 60 fire zones per 19" rack
- Configurable for use with a wide range of fire detection products



Single Channel Gas Control Card



Four Channel Gas Control Card



Four Zone Fire Card



Fire Status Panel



Engineering Card

# Oil and Gas

- Petrochemical
- Onshore
- Offshore

## Industrial

- Chemical
- Semi-conductor
- Water treatmentFood

### Commercial

- Building services
- Car parks
- Boiler houses

Engineering Card Modules				
Serial Communication Modules				
Power Consumption	RS232: 0.75W RS422/485 :1.5W			
Maximum Cable Length	RS232: 15m (49ft) RS422/485 :1200m (3900ft)			
Protection	Thermal shutdown			
Isolation	50V relative to system 0V			
Operating Temperature	-5°C to +55°C			
Storage Temperature	-25°C to +55°C			
Operating Humidity	0-90%RH (non-condensing)			
Weight	30g			
Approvals	EN50270			
Serial Communication				
Format	Asynchronous Serial Data			
Data Bits	8			
Stop Bits	1 or 2			
Parity	odd, even or none			
Data Rate	19200 (not RS232), 9600, 4800 or 2400 baud)			
MODBUS Protocol				
Mode	RTU			
MODBUS Functions	02, 03, 04, 06 & 16			
RS232 Interface Module				
Inputs/Outputs	Two data (RXD, TXD), two handshake (DTR, DSR)			
Input Threshold	Positive: 3V maximum, . Negative: 0.6V minimum			
Output Voltage	±5V minimum			
Input Hysteresis	500mV typical			
Common Mode Voltage	-15V minimum to +15V maximum			

### Find out more

www.honeywellanalytics.com

## **Contact Honeywell Analytics:**

# Europe, Middle East, Africa

Life Safety Distribution AG Wilstrasse 11-U31 CH-8610 Uster Switzerland

Tel: +41 (0)44 943 4300 Fax: +41 (0)44 943 4398 gasdetection@honeywell.com

### **Americas**

Honeywell Analytics Distribution, Inc. 405 Barclay Blvd. Lincolnshire, IL 60069 USA

Tel: +1 847 955 8200 Toll free: +1 800 538 0363 Fax: +1 847 955 8208 detectgas@honeywell.com

### **Asia Pacific**

Honeywell Analytics Asia Pacific #508, Kolon Science Valley (1) 187-10 Guro-Dong, Guro-Gu Seoul, 152-050, Korea

Tel: +82 (0)2 2025 0307 Fax: +82 (0)2 2025 0329 analytics.ap@honeywell.com

## **Technical Services**

ha.emea.service@honeywell.com

RS232 Printer Driver           Power Consumption         0.75W max           Operating Temperature         -5°C to +55°C           Storage Temperature         -25°C to +55°C           Operating Humidity         0-90%RH (non-condensing)           Weight         30g           Approvals         ENSOZ70           Serial Communication         Format           Format         Asynchronous Serial Data, ASCII text or EPSON emulation           Data Bits         8           Stop Bits         1           Parity         None           Data Rate         9600 baud           Printer Compatibility         Carriage return, line feed, date format           RS 232 Interface         Sereened multil-core wife recommended           Inputs/Outputs Specification         Maximum Cable Length           Maximum Cable Length         15m (49ft)           Maxim	Engineering Card Modules cont.				
Operating Temperature         -5°C to +55°C           Storage Temperature         -25°C to +55°C           Operating Humidity         0-90%RH (non-condensing)           Weight         30g           Approvals         EN50270           Serial Communication         Format           Format         Asynchronous Serial Data, ASCII text or EPSON emulation           Data Bits         8           Stop Bits         1           Parity         None           Data Rate         9600 baud           Printer Compatibility         Printer Compatibility           Configuration Options         Carriage return, line feed, date format           RS 232 Interface         Screened multi-core wire recommended inputs/Outputs Specification           Maximum Cable Length         15m (49ft)           Maximum Data Rate         9600 bits per second           Input Hysteresis         500mV typical           Output Voltage         ±5V minimum           Input Hysteresis         500mV typical           Output Voltage         15W minimum to +15W maximum           Input Hysteresis         50V relative to system 0V           Master Alarm Update         15W relative to system 0V           Master Alarm Update         -5°C to +55°C <t< th=""><th>RS232 Printer Driver</th><th></th></t<>	RS232 Printer Driver				
Storage Temperature	Power Consumption	0.75W max			
Operating Humidity         0-90%RH (non-condensing)           Weight         30g           Approvals         EN50270           Serial Communication         Format           Format         Asynchronous Serial Data, ASCII text or EPSON emulation           Data Bits         8           Stop Bits         1           Parity         None           Data Rate         9600 baud           Printer Compatibility         Carriage return, line feed, date format           RS 232 Interface         Carriage return, line feed, date format           RS 232 Interface         Screened multi-core wire recommended           Imputs/Outputs Specification         Maximum Cable Length           Maximum Data Rate         9600 bits per second           Input Hysteresis         500mV typical           Output Voltage         ±5V minimum           Input Hysteresis         500mV typical           Output Voltage         ±5V minimum to ±15V maximum           Common Mode Voltage         -15V minimum to ±15W maximum           Protection         Thermal shutdown           Isolation         50V relative to system OV           Master Alarm Update         25V to +65°C           Operating Temperature         -5°C to +55°C           25V rela	Operating Temperature	-5°C to +55°C			
Weight         30g           Approvals         EN50270           Serial Communication         EN50270           Format         Asynchronous Serial Data, ASCII text or EPSON emulation           Data Bits         8           Stop Bits         1           Parity         None           Data Rate         9600 baud           Printer Compatibility         Printer Compatibility           Configuration Options         Carriage return, line feed, date format           RS 232 Interface         Cable Type           Cable Type         Screened multi-core wire recommended           Inputs/Outputs Specification         Maximum Cable Length           Maximum Data Rate         9600 bits per second           Input Hysteresis         500mV typical           Output Voltage         ±5V minimum           Input Threshold         Positive: 3V maximum, Negative: 0.6V minimum           Common Mode Voltage         -15V minimum to +15V maximum           Protection         Thermal shutdown           Isolation         50V relative to system 0V           Master Alarm Update         Power Consumption           Weight         Update Module: 0.25W max. Update Panel 0.2W max           Weight         Update Module: 0.25W max. Update Panel 0.2W max <th>Storage Temperature</th> <th>-25°C to +55°C</th>	Storage Temperature	-25°C to +55°C			
Approvals  Serial Communication  Format Asynchronous Serial Data, ASCII text or EPSON emulation Data Bits 8 Stop Bits 1 Parity None Data Rate 9600 baud Printer Compatibility Configuration Options Carriage return, line feed, date format RS 232 Interface Cable Type Screened multi-core wire recommended Inputs/Outputs Specification Maximum Cable Length Maximum Data Rate Input Hysteresis 500mV typical Output Voltage Input Threshold Positive: 3V maximum, Negative: 0.6V minimum Common Mode Voltage Thremal shutdown Isolation SoV relative to system OV Master Alarm Update Power Consumption Weight Operating Temperature -25°C to +55°C Operating Temperature -25°C to +55°C Operating Humidity -90%RPH (non-condensing) Approvals Relay Output Contact Type Relay Output Contact Type Relay Output Current SoV relative to system OV Raster Alarm Update Nove Consumption Update Module: 25.9, Update Panel 35.9 Operating Humidity -90%RPH (non-condensing) Approvals EN50270 Relay Output Contact Type Relay Contact Rating Isolation SoV relative to system OV Remote Inputs Update alarm accept and master reset Input Threshold 2V Maximum Input Current Master Alarm Update Module Modes Steady or Pulsed Pulse On/Off Time Adjustable (0 to 25.5 in 0.1 sec intervals) Transistor Output Maximum Input Current Maximum Input Current Maximum Input Current Maximum Input Current Maximum Input Voltage Maximum Input Voltage Maximum Input Current Maximum Inpu	Operating Humidity	0-90%RH (non-condensing)			
Serial Communication Format Asynchronous Serial Data, ASCII text or EPSON emulation Data Bits 8 Stop Bits 1 Parity None Data Rate 9600 baud Printer Compatibility Configuration Options Carriage return, line feed, date format RS 232 Interface Cable Type Screened multi-core wire recommended Imputs/Outputs Specification Maximum Cable Length 15m (49ft) Maximum Data Rate 9600 bits per second Inputs/Outputs Specification Maximum Data Rate 9600 bits per second Input Hysteresis 500m/V typical Output Voltage ±5V minimum Input Threshold Positive: 3V maximum, Negative: 0.6V minimum Common Mode Voltage -15V minimum to +15V maximum Protection Thermal shutdown Isolation 50V relative to system 0V Master Alarm Update Power Consumption Update Module: 0.25W max. Update Panel 0.2W max Weight Update Module: 25g. Update Panel 35g Operating Temperature -5°C to +55°C Storage Temperature -25°C to +55°C Operating Humidity 0-90%RH (non-condensing) Approvals EN50270 Relay Output Contact Type Single pole link selectable for normally open or closed operation Relay Output Contact Type Single pole link selectable for normally open or closed operation Relay Output Contact Type Single pole link selectable for normally open or closed operation SoV relative to system 0V Remote Inputs Update Module Maximum Input Current SinA Maximum Input Current SinA Maximum Input Current Adjustable (0 to 25.5 in 0.1 sec intervals) Transistor Output Maximum Input Voltage Adjustable (0 to 25.5 in 0.1 sec intervals) Transistor Output Maximum Input Current 100mA Saturation Voltage (VCE) 3V (maximum) Protection Thermal over-current shutdown Master Alarm Update Panel Dimensions 3U high x 25mm wide Switch Inputs Update alarm accept and master reset Contact Type Push-button momentary action Visual Output Type Piezo electric buzzer Nominal Frequency Visual Output Type Priezo electric buzzer	Weight	30g			
Format Asynchronous Serial Data, ASCII text or EPSON emulation Data Bits 8  Stop Bits 1 Parity None Data Rate 9600 baud Printer Compatibility Configuration Options Carriage return, line feed, date format RS 232 Interface Cable Type Screened multi-core wire recommended Inputs/Outputs Specification Maximum Cable Length 15m (49ft) Maximum Data Rate 9600 bits per second Input Hysteresis 500mV typical Output Voltage ±5V minimum Negative: 0.6V minimum Common Mode Voltage -15V minimum to +15V maximum Protection Thermal shutdown Isolation 50V relative to system 0V Master Alarm Update Power Consumption Update Module: 0.25W max. Update Panel 0.2W max Weight Update Module: 25g. Update Panel 35g Operating Temperature -5°C to +55°C Storage Temperature -25°C to +55°C Storage Temperature -25°C to +55°C Operating Humidity 0-90%RH (non-condensing) Approvals EN50270 Relay Output Contact Type Single pole link selectable for normally open or closed operation Relay Output Contact Type Update alarm accept and master reset Input Threshold 2V Maximum Input Current SmA Maximum Input Current SmA Maximum Input Current 100mA Saturation Voltage (VCE) 3V (maximum) Protection Thermal over-current shutdown Master Alarm Update Panel Dimensions 3U high x 25mm wide Switch Inputs Update alarm accept and master reset Contact Type Piezo electric buzzer Visual Output Type Piezo electric buzzer Visual Output Type Piezo electric buzzer	Approvals	EN50270			
Data Bits  Stop Bits  Parity None Data Rate 9600 baud  Printer Compatibility Configuration Options RS 232 Interface Cable Type Screened multi-core wire recommended Inputs/Outputs Specification Maximum Cable Length Maximum Data Rate Input Hysteresis 500mV typical Output Voltage Input Threshold Common Mode Voltage Protection Thermal shutdown Solv relative to system 0V Master Alarm Update Power Consumption Update Module: 25g. Update Panel 35g Operating Humidity Operating Humidity Operating Humidity Operating Humidity Operating Humidity Solv relative to system 0V Remote Inputs Operating Humidity Operating Humidity Operating Humidity Operating Liput Contact Type Relay Contact Rating Isolation Solv relative to system OV Remote Inputs Update Module: 25g. Update Panel 35g Operating Humidity Operating Humidity Operating Humidity Operating Humidity Operating Humidity Operating Humidity Operating Update Module: 25g. Update Panel O.2W max Update Input Contact Type Relay Contact Rating Isolation Solv relative to system OV Remote Inputs Update alarm accept and master reset Input Threshold Maximum Input Current SmA Master Alarm Update Module Modes Steady or Pulsed Pulse On/Off Time Adjustable (O to 25.5 in 0.1 sec intervals) Transistor Output Maximum Input Voltage Maximum Input Voltage Maximum Input Voltage Maximum Input Current 100mA Saturation Voltage (VCE) 3V (maximum) Protection Thermal over-current shutdown Master Alarm Update Panel Dimensions 3U high x 25mm wide Switch Inputs Update alarm accept and master reset Contact Type Push-button momentary action Visual Output Type Piezo electric buzzer Visual Output Type Piezo electric buzzer	Serial Communication				
Stop Bits 1 Parity None Data Rate 9600 baud Printer Compatibility Configuration Options Carriage return, line feed, date format RS 232 Interface Cable Type Screened multi-core wire recommended Inputs/Outputs Specification Maximum Cable Length 15m (49ft) Maximum Data Rate 9600 bits per second Input Hysteresis 500mV typical Output Voltage ±5V minimum Input Threshold Positive: 3V maximum, . Negative: 0.6V minimum Common Mode Voltage -15V minimum to +15V maximum Protection Thermal shutdown Isolation 50V relative to system 0V Master Alarm Update Power Consumption Update Module: 25g. Update Panel 35g Operating Temperature -5°C to +55°C Storage Temperature -25°C to +55°C Storage Temperature 325°C to +55°C Storage Temperature 325°C to +55°C Relay Output Contact Type Single pole link selectable for normally open or closed operation Relay Contact Rating 2A at 40Vdc (non-inductive) Isolation 50V relative to system 0V Remote Inputs Update alarm accept and master reset Input Threshold 2V Maximum Input Current 5mA Master Alarm Update Module Modes Steady or Pulsed Pulse On/Off Time Adjustable (0 to 25.5 in 0.1 sec intervals) Transistor Output Maximum Input Current 100mA Saturation Voltage (VCE) 3V (maximum) Protection Thermal over-current shutdown Master Alarm Update Panel Dimensions 3U high x 25mm wide Switch Inputs Update alarm accept and master reset Contact Type Push-button momentary action Visual Output Type Piezo electric buzzer Voltage Input Type Piezo electric buzzer	Format	Asynchronous Serial Data, ASCII text or EPSON emulation			
Parity None Data Rate 9600 baud Printer Compatibility Configuration Options Carriage return, line feed, date format RS 232 Interface Cable Type Screened multi-core wire recommended Inputs/Outputs Specification Maximum Cable Length 15m (49ft) Maximum Data Rate 9600 bits per second Input Hysteresis 500mV typical Output Voltage ±5V minimum Input Threshold Positive: 3V maximum, . Negative: 0.6V minimum Input Threshold Positive: 3V maximum, . Negative: 0.6V minimum Common Mode Voltage -15V minimum to +15V maximum Protection Thermal shutdown Isolation 50V relative to system 0V Master Alarm Update Power Consumption Update Module: 25g. Update Panel 0.2W max Weight Update Module: 25g. Update Panel 35g Operating Temperature -5°C to +55°C Storage Temperature -2°5°C to +55°C Storage Temperature -2°5°C to +55°C Storage Temperature -2°5°C to +55°C Relay Output Contact Type Single pole link selectable for normally open or closed operation Relay Output Contact Type Single pole link selectable for normally open or closed operation Relay Contact Rating 2A at 40Vdc (non-inductive) Isolation 50V relative to system 0V Maximum Input Current 5mA Master Alarm Update Module Modes Steady or Pulsed Maximum Input Current 5mA Master Alarm Update Module Modes Steady or Pulsed Pulse On/Off Time Adjustable (0 to 25.5 in 0.1 sec intervals) Transistor Output Maximum Input Current 100mA Saturation Voltage (VCE) 3V (maximum) Protection Thermal over-current shutdown Master Alarm Update Panel Dimensions 3U high x 25mm wide Switch Inputs Update alarm accept and master reset Contact Type Push-button momentary action Visual Output Type Nominal Frequency 2kHz	Data Bits	8			
Data Rate  Printer Compatibility  Configuration Options  Carriage return, line feed, date format  RS 232 Interface  Cable Type Inputs/Outputs Specification Maximum Cable Length Maximum Data Rate Input Hysteresis SoumV typical Output Voltage Input Threshold Common Mode Voltage Protection Insolation SoV relative to system 0V  Master Alarm Update Voltage Update Module: 0.25W max. Update Panel 0.2W max Weight Update Module: 25g. Update Panel 35g Operating Temperature -5°C to +55°C Storage Temperature -25°C to +55°C Storage Temperature -25°	Stop Bits	1			
Printer Compatibility Configuration Options RS 232 Interface Cable Type Screened multi-core wire recommended Inputs/Outputs Specification Maximum Cable Length Maximum Data Rate Input Hysteresis Somm typical Output Voltage ±5V minimum Input Threshold Common Mode Voltage -15V minimum to +15V maximum Protection Isolation SoV relative to system OV Master Alarm Update Velight Update Module: 0.25W max. Update Panel 0.2W max Weight Update Module: 25g. Update Panel 35g Operating Temperature -5°C to +55°C Storage Temperature -5°C to +55°C Storage Temperature -25°C to +55°C Operating Humidity Approvals EN50270 Relay Output Contact Type Relay Output Contact Type Relay Contact Rating Isolation SoV relative to system OV Remote Inputs Update alarm accept and master reset Input Threshold 2V Maximum Input Current Master Alarm Update Module Modes Steady or Pulsed Maximum Input Current Maximum Input Current 100mA Saturation Voltage (VCE) 3V (maximum) Protection Thermal over-current shutdown Master Alarm Update Panel Update alarm accept and master reset Input Threshold Transistor Output Maximum Input Current Steady or Pulsed Maximum Input Current Transistro Output Maximum Input Current Steady or Pulsed Maximum Input Current Transistro Output Maximum Input Current Steady or Pulsed Maximum Input Current Transistro Output Maximum Input Current Sul high x 25mm wide Switch Inputs Update alarm accept and master reset Contact Type Push-button momentary action Visual Output Type Piezo electric buzzer Nominal Frequency Piezo electric buzzer Nominal Frequency	Parity	None			
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RS 232 Interface Cable Type Inputs/Outputs Specification Maximum Cable Length Maximum Data Rate Input Hysteresis 500mV typical Output Voltage ±5V minimum Input Threshold Common Mode Voltage -15V minimum to +15V maximum Input Threshold Foot to +55°C Operating Temperature -25°C to +55°C Operating Humidity Operating Humidity Operating Humidity Approvals Elay Output Contact Type Relay Output Contact Type Relay Contact Rating Isolation SoV relative to system OV Remote Inputs Input Threshold Input Hyberesis Input Threshold Input Myberesis Input Threshold Input Myberesis Input Threshold Isolation	Printer Compatibility				
Cable Type   Screened multi-core wire recommended   Inputs/Outputs Specification   Maximum Cable Length   15m (49ft)   Maximum Data Rate   9600 bits per second   Input Hysteresis   500mV typical   25V minimum   Input Hysteresis   500mV typical   25V minimum   Input Threshold   Positive: 3V maximum, . Negative: 0.6V minimum   Input Threshold   Positive: 3V maximum, . Negative: 0.6V minimum   Input Threshold   Positive: 3V maximum, . Negative: 0.6V minimum   Input Threshold   Positive: 3V maximum, . Negative: 0.6V minimum   Input Common Mode Voltage   -15V minimum to +15V maximum   Thermal shutdown   Input Rodule: 0.25W max. Update Panel 0.2W max   Input Rodule: 0.25W max. Update Panel 0.2W max   Input Rodule: 25g. Update Panel 35g   Input Rodule: 35g. Update Panel	Configuration Options	Carriage return, line feed, date format			
Inputs/Outputs Specification  Maximum Cable Length  Maximum Data Rate  9600 bits per second  Input Hysteresis  500mV typical  Output Voltage  15V minimum  Input Threshold  Common Mode Voltage  -15V minimum to +15V maximum  Protection  Thermal shutdown  Isolation  50V relative to system 0V  Master Alarm Update  Power Consumption  Update Module: 2.5g, Update Panel 3.5g  Operating Temperature  -5°C to +55°C  Storage Temperature  -25°C to +55°C  Operating Humidity  O-90%RH (non-condensing)  Approvals  EN50270  Relay Output Contact Type  Single pole link selectable for normally open or closed operation  Relay Contact Rating  2A at 40Vdc (non-inductive)  Isolation  50V relative to system 0V  Maximum Input Current  5mA  Master Alarm Update Module  Modes  Steady or Pulsed  Pulse On/Off Time  Adjustable (0 to 25.5 in 0.1 sec intervals)  Transistor Output  Maximum Input Current  Joma  Suturation Voltage (VCE)  3V (maximum)  Protection  Thermal over-current shutdown  Master Alarm Update Panel  Dimensions  3U high x 25mm wide  Switch Inputs  Update alarm accept and master reset  Contact Type  Push-button momentary action  Visual Output Type  Piezo electric buzzer  Nominal Frequency  2kHz	RS 232 Interface				
Maximum Cable Length     15m (49ft)       Maximum Data Rate     9600 bits per second       Input Hysteresis     500mV typical       Output Voltage     ±5V minimum       Input Threshold     Positive: 3V maximum, . Negative: 0.6V minimum       Common Mode Voltage     -15V minimum to +15V maximum       Protection     Thermal shutdown       Isolation     50V relative to system 0V       Master Alarm Update     -50V relative to system 0V       Master Alarm Update     Update Module: 2.59. Update Panel 3.5g       Operating Temperature     -5°C to +55°C       5°C to +55°C     -55°C to +55°C       Operating Humidity     0-90%RH (non-condensing)       Approvals     ENS0270       Relay Output Contact Type     Single pole link selectable for normally open or closed operation       Relay Contact Rating     2A at 40Vdc (non-inductive)       Isolation     50V relative to system 0V       Remote Inputs     Update alarm accept and master reset       Input Threshold     2V       Maximum Input Current     5mA       Master Alarm Update Module     Modes       Modes     Steady or Pulsed       Pulse On/Off Time     Adjustable (0 to 25.5 in 0.1 sec intervals)       Transistor Output     40Vdc       Maximum Input Voltage     40Vdc       Maximum Input Current <th>Cable Type</th> <th>Screened multi-core wire recommended</th>	Cable Type	Screened multi-core wire recommended			
Maximum Data Rate         9600 bits per second           Input Hysteresis         500mV typical           Output Voltage         ±5V minimum           Input Threshold         Positive: 3V maximum, . Negative: 0.6V minimum           Common Mode Voltage         -15V minimum to +15V maximum           Protection         Thermal shutdown           Isolation         50V relative to system 0V           Master Alarm Update         Wester Alarm Update Panel 0.2W max           Weight         Update Module: 25g. Update Panel 35g           Operating Temperature         -5°C to +55°C           Operating Humidity         0-90%RH (non-condensing)           Approvals         EN50270           Relay Output Contact Type         Single pole link selectable for normally open or closed operation           Relay Contact Rating         2A at 40Vdc (non-inductive)           Isolation         50V relative to system 0V           Remote Inputs         Update alarm accept and master reset           Input Threshold         2V           Maximum Input Current         5mA           Master Alarm Update Module         40Vdc           Maximum Input Voltage         40Vdc           Maximum Input Voltage         40Vdc           Maximum Input Current         100mA           <	Inputs/Outputs Specification				
Input Hysteresis 500mV typical Output Voltage ±5V minimum Input Threshold Positive: 3V maximum, . Negative: 0.6V minimum Common Mode Voltage -15V minimum to +15V maximum Protection Thermal shutdown Isolation 50V relative to system 0V  Master Alarm Update Power Consumption Update Module: 0.25W max. Update Panel 0.2W max Weight Update Module: 25g. Update Panel 35g Operating Temperature -5°C to +55°C Storage Temperature -25°C to +55°C Operating Humidity 0-90%RH (non-condensing) Approvals EN50270 Relay Output Contact Type Single pole link selectable for normally open or closed operation Relay Contact Rating 2A at 40Vdc (non-inductive) Isolation 50V relative to system 0V Remote Inputs Update alarm accept and master reset Input Threshold 2V Maximum Input Current 5mA Master Alarm Update Module Modes Steady or Pulsed Pulse On/Off Time Adjustable (0 to 25.5 in 0.1 sec intervals) Transistor Output Maximum Input Voltage 40Vdc Maximum Input Current 100mA Saturation Voltage (VCE) 3V (maximum) Protection Thermal over-current shutdown Master Alarm Update Panel Dimensions 3U high x 25mm wide Switch Inputs Update alarm accept and master reset Contact Type Push-button momentary action Visual Output Type Nominal Frequency 2kHz	Maximum Cable Length	15m (49ft)			
Output Voltage         ±5V minimum           Input Threshold         Positive: 3V maximum, . Negative: 0.6V minimum           Common Mode Voltage         -15V minimum to +15V maximum           Protection         Thermal shutdown           Isolation         50V relative to system 0V           Master Alarm Update         Weight           Update Module: 0.25W max. Update Panel 0.2W max           Weight         Update Module: 25g. Update Panel 35g           Operating Temperature         -5°C to +55°C           Storage Temperature         -25°C to +55°C           Operating Humidity         0-90%RH (non-condensing)           Approvals         EN50270           Relay Output Contact Type         Single pole link selectable for normally open or closed operation           Relay Contact Rating         2A at 40Vdc (non-inductive)           Isolation         50V relative to system 0V           Remote Inputs         Update alarm accept and master reset           Input Threshold         2V           Maximum Input Current         5mA           Master Alarm Update Module         Modes           Modes         Steady or Pulsed           Pulse On/Off Time         Adjustable (0 to 25.5 in 0.1 sec intervals)           Transistor Output         Maximum Input Voltage	Maximum Data Rate	9600 bits per second			
Input Threshold Common Mode Voltage -15V minimum to +15V maximum Thermal shutdown Isolation 50V relative to system 0V  Master Alarm Update Power Consumption Update Module: 0.25W max. Update Panel 0.2W max Weight Update Module: 25g. Update Panel 35g Operating Temperature -5°C to +55°C Storage Temperature -25°C to +55°C Storage Temperature Update Module: 25g. Update Panel 35g Operating Humidity 0-90%RH (non-condensing) Approvals EN50270 Relay Output Contact Type Single pole link selectable for normally open or closed operation Felay Contact Rating 2A at 40Vdc (non-inductive) Isolation 50V relative to system 0V Remote Inputs Update alarm accept and master reset Input Threshold 2V Maximum Input Current 5mA Master Alarm Update Module Modes Steady or Pulsed Pulse On/Off Time Adjustable (0 to 25.5 in 0.1 sec intervals) Transistor Output Maximum Input Voltage 40Vdc Maximum Input Current 100mA Saturation Voltage (VCE) 3V (maximum) Protection Thermal over-current shutdown Master Alarm Update Panel Dimensions 3U high x 25mm wide Switch Inputs Update alarm accept and master reset Contact Type Push-button momentary action Visual Output Type Nominal Frequency 2kHz	Input Hysteresis	500mV typical			
Common Mode Voltage Protection Inermal shutdown Isolation SoV relative to system 0V  Master Alarm Update Power Consumption Update Module: 2.25W max. Update Panel 0.2W max Weight Update Module: 25g. Update Panel 35g Operating Temperature -5°C to +55°C Storage Temperature -25°C to +55°C Operating Humidity 0-90%RH (non-condensing) Approvals EN50270 Relay Output Contact Type Single pole link selectable for normally open or closed operation Relay Contact Rating 2A at 40Vdc (non-inductive) Isolation 50V relative to system 0V Remote Inputs Update alarm accept and master reset Input Threshold 2V Maximum Input Current 5mA Master Alarm Update Module Modes Steady or Pulsed Pulse On/Off Time Adjustable (0 to 25.5 in 0.1 sec intervals) Transistor Output Maximum Input Voltage Maximum Input Current 100mA Saturation Voltage (VCE) 3V (maximum) Protection Thermal over-current shutdown Master Alarm Update Panel Dimensions 3U high x 25mm wide Switch Inputs Update alarm accept and master reset Contact Type Push-button momentary action Visual Output Type Nominal Frequency 2kHz	Output Voltage	±5V minimum			
Protection Isolation SoV relative to system 0V  Master Alarm Update Power Consumption Update Module: 0.25W max. Update Panel 0.2W max Weight Update Module: 25g. Update Panel 35g Operating Temperature -5°C to +55°C Storage Temperature -25°C to +55°C Operating Humidity 0-90%RH (non-condensing) Approvals EN50270 Relay Output Contact Type Single pole link selectable for normally open or closed operation Relay Contact Rating 2A at 40Vdc (non-inductive) Isolation 50V relative to system 0V  Remote Inputs Update alarm accept and master reset Input Threshold 2V Maximum Input Current Master Alarm Update Module Modes Steady or Pulsed Adjustable (0 to 25.5 in 0.1 sec intervals)  Transistor Output Maximum Input Voltage 40Vdc Maximum Input Current 100mA Saturation Voltage (VCE) 3V (maximum) Protection Thermal over-current shutdown Master Alarm Update Panel Dimensions 3U high x 25mm wide Switch Inputs Update alarm accept and master reset Contact Type Push-button momentary action Visual Output Type Piezo electric buzzer Nominal Frequency 2kHz	Input Threshold	Positive: 3V maximum, . Negative: 0.6V minimum			
Isolation 50V relative to system 0V  Master Alarm Update  Power Consumption Update Module: 0.25W max. Update Panel 0.2W max  Weight Update Module: 25g. Update Panel 35g  Operating Temperature -5°C to +55°C  Storage Temperature -25°C to +55°C  Operating Humidity 0-90%RH (non-condensing)  Approvals EN50270  Relay Output Contact Type Single pole link selectable for normally open or closed operation  Relay Contact Rating 2A at 40Vdc (non-inductive)  Isolation 50V relative to system 0V  Remote Inputs Update alarm accept and master reset  Input Threshold 2V  Maximum Input Current 5mA  Master Alarm Update Module  Modes Steady or Pulsed  Pulse On/Off Time Adjustable (0 to 25.5 in 0.1 sec intervals)  Transistor Output  Maximum Input Voltage 40Vdc  Maximum Input Current 100mA  Saturation Voltage (VCE) 3V (maximum)  Protection Thermal over-current shutdown  Master Alarm Update Panel  Dimensions 3U high x 25mm wide  Switch Inputs Update alarm accept and master reset  Contact Type Push-button momentary action  Visual Output Type Piezo electric buzzer  Nominal Frequency 2kHz	Common Mode Voltage	-15V minimum to +15V maximum			
Master Alarm Update Power Consumption Update Module: 0.25W max. Update Panel 0.2W max Weight Update Module: 25g. Update Panel 35g Operating Temperature -5°C to +55°C Storage Temperature -25°C to +55°C Operating Humidity O-90%RH (non-condensing) Approvals EN50270 Relay Output Contact Type Single pole link selectable for normally open or closed operation Relay Contact Rating 2A at 40Vdc (non-inductive) Isolation 50V relative to system 0V Remote Inputs Update alarm accept and master reset Input Threshold 2V Maximum Input Current 5mA Master Alarm Update Module Modes Steady or Pulsed Pulse On/Off Time Adjustable (0 to 25.5 in 0.1 sec intervals) Transistor Output Maximum Input Voltage 40Vdc Maximum Input Current 100mA Saturation Voltage (VCE) 3V (maximum) Protection Thermal over-current shutdown Master Alarm Update Panel Dimensions 3U high x 25mm wide Switch Inputs Update alarm accept and master reset Contact Type Push-button momentary action Visual Output Type Piezo electric buzzer Nominal Frequency 2kHz	Protection	Thermal shutdown			
Power Consumption     Update Module: 0.25W max. Update Panel 0.2W max       Weight     Update Module: 25g. Update Panel 35g       Operating Temperature     -5°C to +55°C       Storage Temperature     -25°C to +55°C       Operating Humidity     0-90%RH (non-condensing)       Approvals     EN50270       Relay Output Contact Type     Single pole link selectable for normally open or closed operation       Relay Contact Rating     2A at 40Vdc (non-inductive)       Isolation     50V relative to system 0V       Remote Inputs     Update alarm accept and master reset       Input Threshold     2V       Maximum Input Current     5mA       Master Alarm Update Module     Modes       Visual Overent     Adjustable (0 to 25.5 in 0.1 sec intervals)       Transistor Output     Maximum Input Voltage       Maximum Input Current     100mA       Saturation Voltage (VCE)     3V (maximum)       Protection     Thermal over-current shutdown       Master Alarm Update Panel     Dimensions       Dimensions     3U high x 25mm wide       Switch Inputs     Update alarm accept and master reset       Contact Type     Push-button momentary action       Visual Output Type     Piezo electric buzzer       Nominal Frequency     2kHz	Isolation	50V relative to system 0V			
Weight     Update Module: 25g. Update Panel 35g       Operating Temperature     -5°C to +55°C       Storage Temperature     -25°C to +55°C       Operating Humidity     0-90%RH (non-condensing)       Approvals     EN50270       Relay Output Contact Type     Single pole link selectable for normally open or closed operation       Relay Contact Rating     2A at 40Vdc (non-inductive)       Isolation     50V relative to system 0V       Remote Inputs     Update alarm accept and master reset       Input Threshold     2V       Maximum Input Current     5mA       Modes     Steady or Pulsed       Pulse On/Off Time     Adjustable (0 to 25.5 in 0.1 sec intervals)       Transistor Output     40Vdc       Maximum Input Voltage     40Vdc       Maximum Input Current     100mA       Saturation Voltage (VCE)     3V (maximum)       Protection     Thermal over-current shutdown       Master Alarm Update Panel     Dimensions       Dimensions     3U high x 25mm wide       Switch Inputs     Update alarm accept and master reset       Contact Type     Push-button momentary action       Visual Output Type     Piezo electric buzzer       Nominal Frequency     2kHz	Master Alarm Update				
Operating Temperature -5°C to +55°C Storage Temperature -25°C to +55°C Operating Humidity O-90%RH (non-condensing) Approvals EN50270 Relay Output Contact Type Single pole link selectable for normally open or closed operation Relay Contact Rating 2A at 40Vdc (non-inductive) Isolation 50V relative to system 0V Remote Inputs Update alarm accept and master reset Input Threshold 2V Maximum Input Current 5mA Master Alarm Update Module Modes Steady or Pulsed Pulse On/Off Time Adjustable (0 to 25.5 in 0.1 sec intervals) Transistor Output Maximum Input Voltage Maximum Input Current 100mA Saturation Voltage (VCE) 3V (maximum) Protection Thermal over-current shutdown Master Alarm Update Panel Dimensions 3U high x 25mm wide Switch Inputs Update alarm accept and master reset Contact Type Push-button momentary action Visual Output Type Piezo electric buzzer Nominal Frequency 2kHz	Power Consumption	Update Module: 0.25W max. Update Panel 0.2W max			
Storage Temperature -25°C to +55°C Operating Humidity -90%RH (non-condensing) Approvals EN50270 Relay Output Contact Type Single pole link selectable for normally open or closed operation Relay Contact Rating 2A at 40Vdc (non-inductive) Isolation 50V relative to system 0V Remote Inputs Update alarm accept and master reset Input Threshold 2V Maximum Input Current 5mA Master Alarm Update Module Modes Steady or Pulsed Pulse On/Off Time Adjustable (0 to 25.5 in 0.1 sec intervals) Transistor Output Maximum Input Voltage Maximum Input Current 100mA Saturation Voltage (VCE) 3V (maximum) Protection Thermal over-current shutdown Master Alarm Update Panel Dimensions 3U high x 25mm wide Switch Inputs Update alarm accept and master reset Contact Type Push-button momentary action Visual Output Type Piezo electric buzzer Nominal Frequency 2kHz	-				
Operating Humidity O-90%RH (non-condensing) Approvals EN50270 Relay Output Contact Type Single pole link selectable for normally open or closed operation Relay Contact Rating 2A at 40Vdc (non-inductive) Isolation 50V relative to system 0V Remote Inputs Update alarm accept and master reset Input Threshold 2V Maximum Input Current 5mA Master Alarm Update Module Modes Steady or Pulsed Pulse On/Off Time Adjustable (0 to 25.5 in 0.1 sec intervals) Transistor Output Maximum Input Voltage Maximum Input Current 100mA Saturation Voltage (VCE) 3V (maximum) Protection Thermal over-current shutdown Master Alarm Update Panel Dimensions 3U high x 25mm wide Switch Inputs Update alarm accept and master reset Contact Type Push-button momentary action Visual Output Type Piezo electric buzzer Nominal Frequency 2kHz					
Approvals EN50270  Relay Output Contact Type Single pole link selectable for normally open or closed operation  Relay Contact Rating 2A at 40Vdc (non-inductive)  Isolation 50V relative to system 0V  Remote Inputs Update alarm accept and master reset  Input Threshold 2V  Maximum Input Current 5mA  Master Alarm Update Module  Modes Steady or Pulsed  Pulse On/Off Time Adjustable (0 to 25.5 in 0.1 sec intervals)  Transistor Output  Maximum Input Voltage 40Vdc  Maximum Input Current 100mA  Saturation Voltage (VCE) 3V (maximum)  Protection Thermal over-current shutdown  Master Alarm Update Panel  Dimensions 3U high x 25mm wide  Switch Inputs Update alarm accept and master reset  Contact Type Push-button momentary action  Visual Output Type Piezo electric buzzer  Nominal Frequency 2kHz					
Relay Output Contact Type  Relay Contact Rating  2A at 40Vdc (non-inductive)  Isolation  50V relative to system 0V  Remote Inputs  Update alarm accept and master reset  Input Threshold  2V  Maximum Input Current  Master Alarm Update Module  Modes  Steady or Pulsed  Adjustable (0 to 25.5 in 0.1 sec intervals)  Transistor Output  Maximum Input Voltage  Maximum Input Current  100mA  Saturation Voltage (VCE)  3V (maximum)  Protection  Thermal over-current shutdown  Master Alarm Update Panel  Dimensions  3U high x 25mm wide  Switch Inputs  Contact Type  Push-button momentary action  Visual Output Type  Nominal Frequency  Solve Advoc Nominal Frequency  Single pole link selectable for normally open or closed operation  For normally open or closed operation  Advock (non-inductive)  Solve normally open or closed operation  For Normally open or closed operation  Visual Output Type  Solve Inputs  Advock (non-inductive)  Steady or Pulse Ov  Visual Output Type  Normal Frequency					
Relay Contact Rating 2A at 40Vdc (non-inductive) Isolation 50V relative to system 0V  Remote Inputs Update alarm accept and master reset Input Threshold 2V  Maximum Input Current 5mA  Master Alarm Update Module Modes Steady or Pulsed Pulse On/Off Time Adjustable (0 to 25.5 in 0.1 sec intervals)  Transistor Output  Maximum Input Voltage 40Vdc  Maximum Input Current 100mA  Saturation Voltage (VCE) 3V (maximum)  Protection Thermal over-current shutdown  Master Alarm Update Panel Dimensions 3U high x 25mm wide  Switch Inputs Update alarm accept and master reset  Contact Type Push-button momentary action  Visual Output Type Piezo electric buzzer  Nominal Frequency 2kHz	• •				
Isolation 50V relative to system 0V  Remote Inputs Update alarm accept and master reset Input Threshold 2V  Maximum Input Current 5mA  Master Alarm Update Module Modes Steady or Pulsed Pulse On/Off Time Adjustable (0 to 25.5 in 0.1 sec intervals)  Transistor Output  Maximum Input Voltage 40Vdc  Maximum Input Current 100mA  Saturation Voltage (VCE) 3V (maximum)  Protection Thermal over-current shutdown  Master Alarm Update Panel  Dimensions 3U high x 25mm wide  Switch Inputs Update alarm accept and master reset  Contact Type Push-button momentary action  Visual Output Type Piezo electric buzzer  Nominal Frequency 2kHz		* * * * * * * * * * * * * * * * * * * *			
Remote Inputs Update alarm accept and master reset Input Threshold 2V  Maximum Input Current 5mA  Master Alarm Update Module Modes Steady or Pulsed Pulse On/Off Time Adjustable (0 to 25.5 in 0.1 sec intervals)  Transistor Output  Maximum Input Voltage 40Vdc  Maximum Input Current 100mA  Saturation Voltage (VCE) 3V (maximum)  Protection Thermal over-current shutdown  Master Alarm Update Panel Dimensions 3U high x 25mm wide  Switch Inputs Update alarm accept and master reset  Contact Type Push-button momentary action  Visual Output Type Piezo electric buzzer  Nominal Frequency 2kHz	•	,			
Input Threshold 2V  Maximum Input Current 5mA  Master Alarm Update Module  Modes Steady or Pulsed  Pulse On/Off Time Adjustable (0 to 25.5 in 0.1 sec intervals)  Transistor Output  Maximum Input Voltage 40Vdc  Maximum Input Current 100mA  Saturation Voltage (VCE) 3V (maximum)  Protection Thermal over-current shutdown  Master Alarm Update Panel  Dimensions 3U high x 25mm wide  Switch Inputs Update alarm accept and master reset  Contact Type Push-button momentary action  Visual Output Type Piezo electric buzzer  Nominal Frequency 2kHz		· · · · · · · · · · · · · · · · · · ·			
Maximum Input Current     5mA       Master Alarm Update Module     Steady or Pulsed       Modes     Steady or Pulsed       Pulse On/Off Time     Adjustable (0 to 25.5 in 0.1 sec intervals)       Transistor Output     40Vdc       Maximum Input Voltage     40Vdc       Maximum Input Current     100mA       Saturation Voltage (VCE)     3V (maximum)       Protection     Thermal over-current shutdown       Master Alarm Update Panel     Dimensions       Dimensions     3U high x 25mm wide       Switch Inputs     Update alarm accept and master reset       Contact Type     Push-button momentary action       Visual Output Type     Piezo electric buzzer       Nominal Frequency     2kHz	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
Master Alarm Update Module     Steady or Pulsed       Pulse On/Off Time     Adjustable (0 to 25.5 in 0.1 sec intervals)       Transistor Output     40Vdc       Maximum Input Voltage     40Vdc       Maximum Input Current     100mA       Saturation Voltage (VCE)     3V (maximum)       Protection     Thermal over-current shutdown       Master Alarm Update Panel     Dimensions       Dimensions     3U high x 25mm wide       Switch Inputs     Update alarm accept and master reset       Contact Type     Push-button momentary action       Visual Output Type     Piezo electric buzzer       Nominal Frequency     2kHz	•				
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Protection     Thermal over-current shutdown       Master Alarm Update Panel     Dimensions       Switch Inputs     Update alarm accept and master reset       Contact Type     Push-button momentary action       Visual Output Type     Piezo electric buzzer       Nominal Frequency     2kHz					
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Switch Inputs     Update alarm accept and master reset       Contact Type     Push-button momentary action       Visual Output Type     Piezo electric buzzer       Nominal Frequency     2kHz	Master Alarm Update Panel				
Contact Type Push-button momentary action  Visual Output Type Piezo electric buzzer  Nominal Frequency 2kHz	Dimensions	3U high x 25mm wide			
Visual Output Type     Piezo electric buzzer       Nominal Frequency     2kHz	Switch Inputs	Update alarm accept and master reset			
Nominal Frequency 2kHz	Contact Type	Push-button momentary action			
	Visual Output Type	Piezo electric buzzer			
Sound Level 85dB at 100mm	Nominal Frequency	2kHz			
	Sound Level	85dB at 100mm			

# Please Note:

While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions.

Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines.

This publication is not intended to form the

