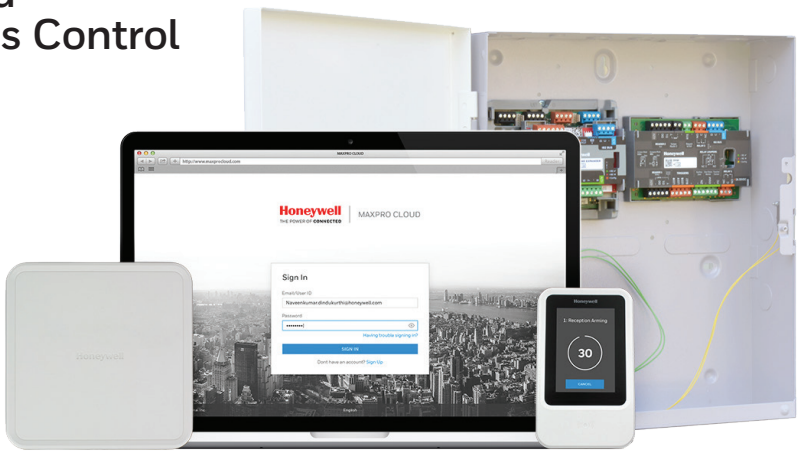
MAXPRO INTRUSION PERIPHERALS

Compatibility for Cloud-Hosted Integrated Intrusion and Access Control



The Honeywell MAXPRO® Intrusion Peripherals offer enhancement of the MAXPRO® Intrusion (MPI) fully integrated intrusion and access control system.

MPI is part of the MAXPRO® family of products, and the system and its peripheral devices must be connected to MAXPRO® Cloud for configuration, maintenance, and management.

MAXPRO® Cloud is a fully integrated access, video, and intrusion Security-as-a-Service platform. Ideal for small to medium businesses, MAXPRO® Cloud makes single or multi-site building security simple and scalable.

Users can manage their security system from anywhere at any time via any standard web browser or our innovative award-winning app.

Remote configuration and management of sites, devices, schedules, and users reduces operational costs and streamlines efficiencies across multi-site installations.

The cloud-ready peripheral modules broaden your MPI configuration with backup communication, keypad interfaces, access points, relays/zone expansion, and smart remote power supply.

FEATURES AND BENEFITS

- Modular expansion capability, allowing 1 or 2 IB2 buses with up to 46 devices per bus, along with optional LTE module
- Cloud-hosted devices, requiring no servers or software
- Plug and play device connection for easy installation
- Auto addressing and cloud-based configuration, reducing system creation costs and time
- Peripheral firmware updates can be pushed from the cloud without having to roll a truck
- System security with HTTPS login and 256-bit encryption, high availability data centres
- Constant polling of IB2 bus by the control panel, offering device issue reports within seconds
- Assured dependability of messaging and alarms through the LTE module, providing full Ethernet connection backup using cellular radio communication
- Growth and scaling to meet your customer's needs

It is necessary to register for an account with MAXPRO® Cloud before using the MPI system and its components.

*Visit **www.maxprocloud.com** for details.*

Honeywell

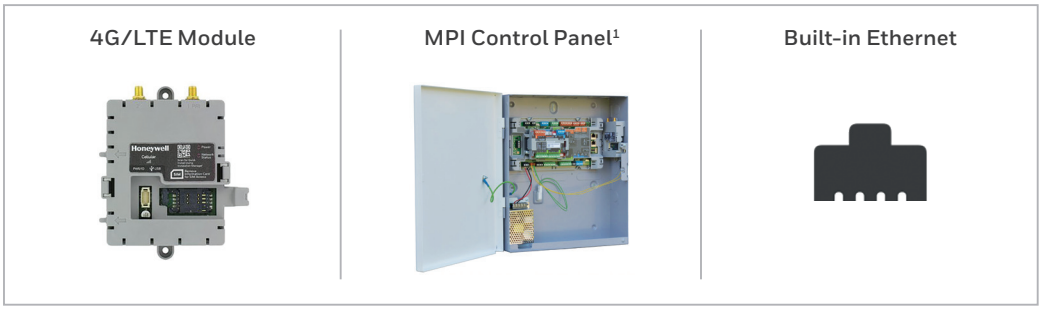
MAXPRO INTRUSION PERIPHERALS

SYSTEM BENEFITS

- Multi-site deployment made easy with cloud-based configuration and management:
  - Access from anywhere via standard web browser
  - Remote configuration and updates
  - Map based configuration and management
  - Automated and scheduled reporting
- Single, multi-site user database for access/ intrusion and multi-site Permission Groups:
  - Manage user credentials across large scale deployments
  - Integrate access doors and intrusion areas
- Multi-site management via app for iOS and Android™
- Easy to install and cost effective:
  - Modular and scalable
  - Free wiring topology (chain, star, or spur) over standard cable to reduce cabling costs and time
  - Stackable IB2 modules can be located within the MPI enclosure
  - Simple plug-and play IP connectivity
  - Automatic addressing of peripherals: unique device IDs embedded in modules for handsfree enrolment
  - Simple user interface and colour-coded terminal blocks
  - Flexible options for zone supervision types and end-ofline resistor values
- Optional cellular radio communication via LTE module along with Ethernet
- Customer remote monitoring of multiple sites (secondary to Central Station monitoring):
  - Web and mobile apps available
  - Push notifications
- Integration with MAXPRO® Video cameras, MAXPRO® ACCESS and NetAXS through MAXPRO® Cloud
- Support for Domonial RF sensors with manual and auto enrollment of multiple sensors
- Direct alarm reporting compliant with SIA DC09
- NTP URL configuration support through keypad
- Seismic test with SC115 simulator for SC100 & SC105

MAXPRO INTRUSION PERIPHERALS

ARCHITECTURAL OVERVIEW



1. IB2 modules can be stacked in enclosure for saving space and quick connectivity.
2. The system guarantees performance of up to 46 IB2 devices per IB2 bus. Check the Ordering Table for compatible devices. The MPIP3xxx control panels support two IB2 buses.
3. Remote Power Supply requires an enclosure for installation.

MAXPRO INTRUSION
4G/LTE MODULE

The MPI 4G/LTE Module is an optional communication module intended for use with the MPI Control Panel. It can provide a full backup path for the Ethernet connection, providing cellular radio communication for delivery of alarms and other messages to the central monitoring station.



MPICLTEE	
LTE MODULE	
INPUT VOLTAGE	14 VDC nominal (13.85–14.5 VDC)
CURRENT, IDLE	45 mA
CURRENT, MAX. (TRANSMITTING)	240 mA
FREQUENCY BANDS	LTE Category 1 2G GSM LTE Bands: 1, 3, 8, 20, 28 2G GSM Bands: GSM 900 and DCS 1800
SIM CARD	2FF mini-SIM SIM card not included; please purchase and activate a SIM card from your preferred provider
ANTENNAS (X 2)	
TYPE	Wideband, Dipole 4G LTE
FREQUENCIES	698–960 MHz, 1575.42 MHz, 1710–2700 MHz
POLARIZATION	Linear
PEAK GAIN	3 dBi
VSWR	< 2:1
IMPEDANCE	50 Ohms
CONNECTOR TYPE	SMA-M, Hinged
ENVIRONMENTAL	
OPERATING TEMPERATURE	-10 to +50°C / Indoor use only
HUMIDITY	Max. 93% RH non-condensing
PHYSICAL	
DIMENSIONS (W X H X D)	LTE module: 97.6 mm x 108 mm x 25.4 mm Each antenna: 168.4 mm x 49 mm As shipped: 24.5 cm x 16.5 cm x 8 cm
WEIGHT	LTE module: 97 g As shipped: 393 g Each antenna: 45.3 g

FEATURES

- Alarm and message delivery for monitoring
- Backup path for Ethernet connection
- Cellular radio communication
- Two SMA cable/SMA isolator/ SMA antenna sets

COMPLIANCE

This product is suitable for use in systems designed to comply with EN 50131-3:2009 Grade 3 Environmental Class II.

This product has been tested for compliance by BRE Global Ltd. UK to: EN 50136-2:2013 (For category, please see the installation guide for the certified Control Panel.)

EN 50131-10:2014 Type Y when used with certified MAXPRO® Intrusion MPIP Controller in MPIBXM35 enclosure.

MAXPRO INTRUSION
TOUCHSCREEN KEYPADS

The MAXPRO Intrusion Keypads are designed to provide a simple day-to-day interface with MPI Control Panels.

Each keypad connects to the IB2 communication bus.

MPIKTSMF, MPIKTSPRX	
ELECTRICAL	
INPUT VOLTAGE	14 VDC nominal (13.85–14.5 VDC)
CURRENT, IDLE	MPIKTSMF: 100 mA / MPIKTSPRX: 75 mA
CURRENT, MAX.	MPIKTSMF: 130 mA / MPIKTSPRX: 110 mA (display and buzzer on)
SOUNDER	Full Power, -3 dB, -6 dB, and -9 dB (85 dB at 10 cm)
CARD SUPPORT	
MPIKTSMF CARD TYPES	Mifare (Classic 32-bit and Desfire 56-bit); reading CSN only EM4102 ASK 125 kHz; up to 40-bit
MPIKTSPRX CARD TYPES	EM4102 ASK 125 kHz; up to 40-bit
ENVIRONMENTAL	
OPERATING TEMPERATURE	-10 to +50°C / Indoor use only
HUMIDITY	Max. 93% RH non-condensing
INGRESS AND IMPACT PROTECTION	EN 60529:1992+A2:2013: IP42 EN 62262:2002: IK06
PHYSICAL	
DIMENSIONS (W X H X D)	8.45 cm x 13.96 cm x 4.01 cm As shipped: 9.3 cm x 16.7 cm x 5 cm
WEIGHT	169 g As shipped: 244 g
OTHER	
ANCILLARY CONTROL EQUIPMENT (ACE)	Type B
OPTIONS	
MPIKW1: MAXPRO® INTRUSION KEYPAD WALL MOUNTING PLATE	



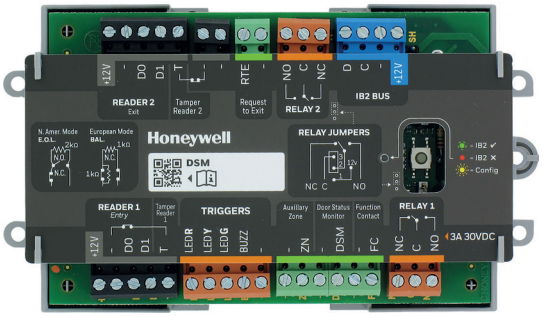
FEATURES

- Control options: PIN code or proximity card reader
- LCD graphic display
- Built-in sounder with adjustable volume, unique alarms
- Multi-area control
- Global arming and disarming for all areas
- Proximity card reader for up to 40-bit cards
- Mifare 32-bit or 56-bit card type support
- Lid and off-wall tamper protection

COMPLIANCE

This product has been tested for compliance by BRE Global Ltd. UK to: EN 50131-3:2009 Grade 3 Environmental Class II.

MAXPRO INTRUSION
DOOR CONTROL MODULE



The MAXPRO® Intrusion Door Control Module (DCM) is a single door access control module and connects to an MPI Control Panel. It provides access and egress to the protected premise.

Adding more than one DCM increases the number of access points and each communicates with an MPI Control Panel via the IB2 communication bus.

MPIDC1	
BOARD POWER	
INPUT VOLTAGE	13.8 VDC nominal (10–14.5 VDC)
CURRENT, IDLE	60 mA
CURRENT, MAX.	185 mA (relays active)
ACCESS CONTROL	
READER POWER	13.7 VDC; 1 A
WIEGAND DATA	5 VDC
CARD TYPES	Wiegand: - HID cards: 26, 32, 34, 35, and 48 bit - Mifare cards: Classic 32 bit and Desfire 56 bit; reading CSN only - EM4102 ASK 125 kHz; up to 40 bits Note: card type is set on site level (all DCMs in the site)
RELAYS	
DOOR STRIKE/LOCK	12–30 VDC; 3 A max.; dedicated for door lock (magnetic lock or door strike). Current-limited to 1.5 A with 12 VDC on NC/NO pin
TRIGGER OUTPUTS (X 4)	
LED R, LED Y, LED G, BUZZ	50 mA (switched negative) each
ZONES (INPUTS)	
RTE (REQUEST TO EXIT)	Default triple-balanced
DSM (DOOR STATUS MONITOR)	Default triple-balanced
ENVIRONMENTAL	
OPERATING TEMPERATURE	-10 to +50˚C / Indoor use only
HUMIDITY	Max. 93% RH non-condensin
INGRESS AND IMPACT PROTECTION	EN 60529:1992+A2:2013: IP42 / EN 62262:2002: IK06
PHYSICAL	
DIMENSIONS (W X D X H)	With enclosure: 18 cm x 14 cm x 4 cm Without enclosure: 13 cm x 8.6 cm x 2.6 cm As shipped: 21.5 cm x 15.0 cm x 4.5 cm
WEIGHT	With enclosure: 356g Without enclosure: 120g As shipped: 453g
OTHER	
ANCILLARY CONTROL EQUIPMENT (ACE)	Type B

FEATURES

- Single-door control for connection to control panel
- Two readers selectable for entry or exit
- Programmable 12 VDC relay for door lock
- Control of reader, buzzer, and 3 LEDs
- Separate remote enclosure or cabinet mounting
- Lid and off-wall tamper protection, bypassable

COMPLIANCE

This product has been tested for compliance by BRE Global Ltd. UK to: EN 50131-3:2009 Grade 3 Environmental Class II.

MAXPRO INTRUSION
REMOTE POWER SUPPLY

The MPI Remote Power Supply is a supplemental smart power supply. In the event the total current draw of all modules connected to the control panel's auxiliary output is exceeded, the Remote Power Supply (RPS) provides additional 12 VDC power outputs to those modules and peripherals requiring additional power (such as door control modules, keypads, motion detectors, glass break detectors, sounders, etc.). It also provides four programmable low-voltage trigger outputs.



MPIPSU35	
BOARD POWER	
INPUT VOLTAGE	14 VDC nominal (13.6–14.5 VDC)
IDLE CURRENT[1]	35 mA
MAX. CURRENT[2]	35 mA
BACKUP BATTERY	Up to 2 x 12 VDC sealed lead acid (SLA) battery
RECOMMENDED BATTERIES	Yuasa NP7-12FR / Yuasa NP17-12IFR / Yuasa NP18-12FR
BATTERY PROTECTION	System has protection for charging and reverse polarity connection
BATTERY LOW VOLTAGE[3]	11.2 VDC
BATTERY DEEP DISCHARGE PROTECTION[4]	10.5 VDC
MINIMUM SUPPORTED BATTERY VOLTAGE[5]	9.5 VDC
AUXILIARY OUTPUTS	
AUX1, AUX2	13.8 VDC nominal (10.2–14.4 VDC) 1.5 A max. per auxiliary output. In the event of a failure, overvoltage protection will operate at 16.5 VDC
TOTAL CURRENT AVAILABLE FOR AUX OUTPUTS	The combined load from all auxiliary outputs depends on battery capacity and must not exceed the maximums as given in the Current Ratings table (see further below)
AUX LOW POWER OUTPUT FAULT	10.0 VDC
AUX HIGH POWER OUTPUT FAULT	14.5 VDC
CIRCUIT PROTECTION	All circuits are power limited using PTCs
LOW-VOLTAGE TRIGGER OUTPUTS (X 4)	
TRIGGER OUTPUT VOLTAGE	13.8 VDC (0 VDC with switched)
MAX. CURRENT	Triggers 1–3: 75 mA per output Trigger 4: 250 mA
ENVIRONMENTAL	
OPERATING TEMPERATURE	-10 to +50 °C / Indoor use only
HUMIDITY	Max. 93% RH non-condensing
INGRESS AND IMPACT PROTECTION	See specification for the cabinet
PHYSICAL	
DIMENSIONS (W X D X H)	15.7 cm x 12.7 cm x 4.2 cm As shipped: 23.5 cm x 16.3 cm x 7.5 cm
WEIGHT	250g As shipped: 440g

FEATURES

- Two fully protected, monitored 12 VDC 1.5 A outputs
- Four programmable low-voltage trigger outputs
- Support for up to 2 x 18 Ah backup batteries, supervised
- Designed for mounting in MPI enclosure
- Short isolation and lid and off-wall tamper protection

COMPLIANCE

This product has been tested for compliance by BRE Global Ltd. UK to:
EN 50131-3:2009 Grade 3
Environmental Class II
EN 50131-6:2017 Type A when used in conjunction with certified MAXPRO® Intrusion enclosure MPIBXM35.

1. Idle current consumption is for the RPS circuit board only and does not include any current drawn from the auxiliary outputs.
2. Maximum current consumption is for the RPS circuit board only and does not include any current drawn from the auxiliary outputs.
3. The voltage at which the system will issue the low battery warning.
4. The voltage at which the system will disconnect the backup batteries from the circuit.
5. The voltage at which the system will treat the battery as if it is not there and will not recharge it.

The table below lists the advised loads to meet regulations based on using a battery at 100% capacity and allowing for activation of a sounder as per the regulation. Loads need to be adjusted if the battery is at less than 100%. There is no restriction other than the permitted load on capacity of battery used. For the purposes of calculation, an allowance of 400 mA to activate the sounder has been included, but not the idle current of the sounder. When calculating the total load, remember to include the idle current of the sounder.

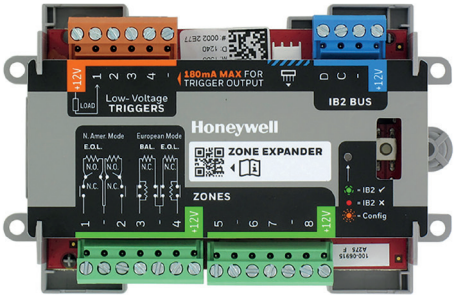
CURRENT RATINGS				
BATTERY CAPACITY	7 Ah	14 Ah	17/18 Ah	36 Ah[4]
EN GRADE 2; RECHARGE 72 H	500 mA	1000 mA	1350 mA	2500 mA
EN GRADE 3; RECHARGE 24 H	190 mA	425 mA	525 mA	1150 mA
EN GRADE 3 WITH SPPS; RECHARGE 24 H	1650 mA	2420 mA	2320 mA	1520 mA

4. For 36 Ah battery capacity, you need to install 2 x 18 Ah batteries. You will need a second tamper-protected cabinet to house the second battery.

MAXPRO INTRUSION ZONE EXPANDER

The MAXPRO® Intrusion Zone Expander module provides eight additional hardwired zones for use with MPI Control Panels and four additional lowvoltage trigger outputs.

MPIEIO84E	
BOARD POWER	
INPUT VOLTAGE	13.8 VDC nominal (10–14.5 VDC)
CURRENT, IDLE	35 mA
CURRENT, MAX.	60 mA (all zones active)
ZONES (INPUTS) (X 8)	
VOLTAGE	3.3 VDC
RESISTANCE TOLERANCE	1 % max
TRIGGER OUTPUTS (X 4)	
TRIGGER OUTPUT VOLTAGE	13.7 VDC (0 VDC with switched)
MAX. CURRENT (PER OUTPUT)	180 mA
ENVIRONMENTAL	
OPERATING TEMPERATURE	-10 to +50˚C / Indoor use only
HUMIDITY	Max. 93% RH non-condensing
INGRESS AND IMPACT PROTECTION	EN 60529:1992+A2:2013: IP42 / EN 62262:2002: IK06
PHYSICAL	
DIMENSIONS (W X H X D)	With enclosure: 14.6 cm x 14.6 cm x 3.4 cm As shipped: 17.5 cm x 15.5 cm x 4.0 cm
WEIGHT	With enclosure: 263g As shipped: 341g
OTHER	
ANCILLARY CONTROL EQUIPMENT (ACE)	Type B



FEATURES

- Eight hard-wired zones with support for three wiring types:
  - Supervised EOLR, NO or NC
  - Double balanced
  - Triple balanced
- Four programmable low-voltage trigger outputs
- Separate remote enclosure or cabinet mounting
- Lid and off-wall tamper protection, bypassable

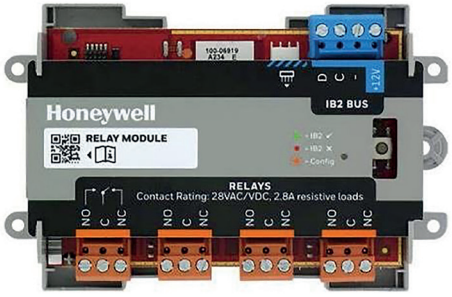
COMPLIANCE

This product has been tested for compliance by BRE Global Ltd. UK to: EN 50131-3:2009 Grade 3, Environmental Class II.

MAXPRO INTRUSION RELAY MODULE

The MAXPRO® Intrusion Relay Module provides four additional programmable, unsupervised relays for use with MPI Control Panels.

MPIEOP4	
BOARD POWER	
INPUT VOLTAGE	13.8 VDC nominal (10–14.5 VDC)
CURRENT, IDLE	15 mA
CURRENT, MAX.	185 mA (relays active)
RELAYS (X 4)	Contact rating 28 VDC; max. 2.8 A (resistive load) max. per relay
ENVIRONMENTAL	
OPERATING TEMPERATURE	-10 to +50˚C / Indoor use only
HUMIDITY	Max. 93% RH non-condensing
INGRESS AND IMPACT PROTECTION	EN 60529:1992+A2:2013: IP42 / EN 62262:2002: IK06
PHYSICAL	
DIMENSIONS (W X H X D)	With enclosure: 14.6 cm x 14.6 cm x 3.4 cm As shipped: 17.5 cm x 15.5 cm x 4.0 cm
WEIGHT	With enclosure: 256g As shipped: 332g
OTHER	
ANCILLARY CONTROL EQUIPMENT (ACE)	Type B



FEATURES

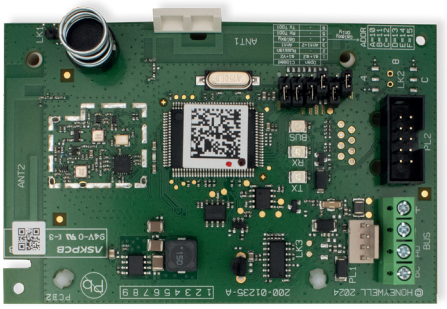
- Four non-supervised relays
- Status LEDs
- Separate remote enclosure or cabinet mounting
- Lid and off-wall tamper protection, bypassable

COMPLIANCE

This product has been tested for compliance by BRE Global Ltd. UK to: EN 50131-3:2009 Grade 3, Environmental Class II.

MAXPRO INTRUSION
WIRELESS PORTAL

The MAXPRO® Intrusion Wireless Portal provides 192 wireless expansion zones making wireless possible for all types and sizes of installation. There can be up to eight RF portals in an installation which coupled with unique bidirectional radio and agile routing technologies, ensures that the wireless sensors and the control panel can talk to each other using the strongest available signal path.



MPIWLTXAL	
BOARD POWER	
INPUT VOLTAGE	13.8 VDC nominal (12 VDC)
CURRENT, IDLE	35 mA
CURRENT, MAX.	40
ENVIRONMENTAL	
OPERATING TEMPERATURE	-10 to +40°C / Indoor use only
HUMIDITY	Max 0% - 85%
PHYSICAL	
DIMENSIONS (W X H X D)	With enclosure: 164 mm x 152 mm x 39 mm
WEIGHT	With enclosure: 250g PCB only 45g
OTHER	
ANCILLARY CONTROL EQUIPMENT (ACE)	Type B

FEATURES

- Bi-directional wireless interface supporting 868MHz frequency
- Upto 8 RF portals can be used with MPIP3000E panel
- Upto 4 RF portals can be used with MPIP2000E/MPIP2100E panels
- Full bi-directional agile routing (patented technology)
- Compatible with Domonial Alpha and V2 protocol Rf sensors
- Separate remote enclosure or cabinet mounting
- Lid and off-wall tamper protection, Bypassable

COMPLIANCE

This product has been certified by BRE Global Ltd. UK to EN 50131-3:2009 and EN50131-5-3:2017 Grade 2, ACE Type B, Environmental Class II.

MAXPRO INTRUSION
CABLING

FUNCTION	SIGNAL(S)	TYPE	MAX. LENGTH	INTERIOR / EXTERIOR
AC POWER	110/230 VAC	As per local laws and regulations		Interior
ZONE	Sensor contact input	Twisted pair or better (core min 0.182 mm² / 24 AWG)	100 m (328 ft)	Interior
INTER UNIT WIRING	IB2[1]	• 4-core alarm cable (22/4 STR CM/ CL2); 100 ohms/km max • CAT 5E UTP 24 AWG	525 mA	Interior
	V-Plex	See the MAXPRO Intrusion Installation and Setup Guide (800-23044-1).		Interior
ETHERNET	Ethernet	CAT5E shielded	100 m (328 ft)	Interior
AERIAL EXTENSION LEADS	4G LTE	50 ohm low-loss SMA M to F coaxial	Refer to cable manufacturer's recommendation	Interior
EXTERNAL SIREN	Power, trigger, tamper, and fault	As per manufacturer's recommendation	100 m (328 ft)	Interior

MAXPRO INTRUSION
PERIPHERALS

PART NO.	PRODUCT NAME	REMARK
COMMUNICATION MODULE		
MPICLTEE	MAXPRO Intrusion LTE module (Europe)	
IB2 BUS DEVICES		
REMOTE POWER SUPPLY		
MPIPSU35	MAXPRO Intrusion expansion PSU 3.5 A	Needs cabinet
I/O WIRED EXPANDERS		
MPIEIO84E	MAXPRO Intrusion Zone Expander Module, 8 hardwired zones + 4 triggers	
MPIEOP4	MAXPRO Intrusion Relay Module, 4 relays	
MPIWLTXAL	MAXPRO Intrusion RF wireless expander module, 192 RF wireless zones'	
KEYPADS		
MPIKTSMF	MAXPRO Intrusion Touchscreen Keypad Mifare	
MPIKTSPRX	MAXPRO Intrusion Touchscreen Keypad Proximity	
MPIKW1	MAXPRO Intrusion Keypad Wall Mounting Plate	
ACCESS CONTROL MODULES		
MPIDC1	MAXPRO Intrusion 1 Door Control Module (1 door, up to 2 readers)	

ECOSYSTEM INCLUDES:

- MAXPRO Cloud
- Control panel
- Peripherals
- Sensors
- Internet
- ISOM / SIA DC09 compatible alarm receiver
- Central monitoring station

For More Information
buildings.honeywell.com/security

Honeywell Commercial Security
Building 5 Carlton Park
King Edward Avenue
Narborough, Leicester
LE19 OAL
United Kingdom
Tel: +44 (0) 1163 500714
www.honeywell.com

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THE FUTURE IS WHAT WE MAKE IT

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