

Hills Reliance

Technical Data Sheet



Hills Reliance Specifications

Operating Power	16.5 VAC 25, 40, or 50 VA Transformer
Current Draw	60 mA Standby 150 mA Alarm
Auxiliary Power	
w/ 25 VA Transformer	12 VDC 0.5A Regulated
w/ 40-50 VA Transformer	12 VDC 1.0A Regulated
w/ NX-320E	12 VDC 2.0A Regulated
Loop Resistance	
Standard Loop	300 Ohms max.
2-Wire Smokes	30 Ohms max.
Built in Siren Driver	3 tone (Steady, Yelp, Evacuation)
Operating Temperature	0 to 49°C
4-Wire Smokes	300 Ohms max.
Loop Response	500ms
R12/128 Backup Battery	12 V 7 Ah Sealed-Lead Acid
R8 Backup Battery	12 V 4 Ah Sealed-Lead Acid
R12/128 Dimensions	289 mm W x 291mm H x 93mm D
R8 Dimensions	236 mm W x 212mm H x 91mm D
R12/128 Shipping Weight	4 kg
R8 Shipping Weight	2 kg
R128 DAS Order Code	S4133
R12 DAS Order Code	S4142
R8 DAS Order Code	S4697

Features	R8	R12	R128
Independent number of zones	8	12	16
Expandable to a maximum number of zones (a combination of hardwired and/or wireless)	8	16	128
Selectable EOL resistor value (main panel only)	Yes	Yes	Yes
Anti-tamper supervision of all zones (hardwired and wireless)	Yes	Yes	Yes
Zone inactivity monitor	Yes	Yes	Yes
Full supervision of all expansion module and code pads	Yes	Yes	Yes
Individual areas/partitions	1	2	8
Total number of user PIN codes (4 digit)	8	40	99
Maximum number of code pads (* max. 8 VoiceNav code pads)	8	16*	24*
Code pad tamper	Yes	Yes	Yes
Uni Arming (single button arming for full or partial mode)	Yes	Yes	Yes
Home mode/Partial mode arming	Yes	Yes	Yes
Automatic arming (and auto partial mode arming)	Yes	Yes	Yes
Real-time event history (maximum events)	185	185	185
Phone line monitor	Yes	Yes	Yes
Fire alarm verification	Yes	Yes	Yes
Supports two wire smoke detectors	No	Yes	Yes
NX-1701EAU Keyless Door Entry Readers Supported	1	2	4

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NX1701E Keyless Door Entry

Description

Adds keyless door entry functionality. Proximity card readers can be assigned to any combination of 8 areas. 1 low current trigger output, 8 time schedules per reader, max. 99 cards.



Specifications

Compatibility	NX16 up to 4 readers
	Reliance 8 up to 1 reader
	Reliance 12 up to 2 readers
	Reliance 128 up to 4 readers
Operating Power	12 VDC
Current Draw	40 mA Standby
	110 mA max.
Operating Temperature	5 to 60°C
Dimensions	38 mm x 114 mm x 25 mm
	with 150mm cable
DAS Order Code	S1845

NX-216E 16-Zone Expander

Description

Add an additional 16 hardwired zones to the system. Optional tamper switch.



Specifications

Compatible Panels	NX and Reliance Panels
Operating Power	12 VDC
Auxiliary Power	100 mA max.
Current Draw	120 mA during communication
	90 mA standby
Loop Resistance	300 Ohms max.
Loop Response	Selectable 50ms or 500ms
Operating Temperature	0 to 49°C
Dimensions	152 mm x 540 mm x 25 mm
Resistor EOL	3.3 k only
DAS Order Code	S4129

NX-507E Seven Relay Expander



Description

Add 7 separate normally open/normally closed relay contacts. Also has 1 low current trigger output.

Specifications

Compatible Control Panels	NX and Reliance
Operating Power	12 VDC
Auxiliary Power	Limited to 100 mA
Current Draw	10 mA with no relays active
	310 mA with all relays active + current draw of any device attached
Operating Temperature	0 to 49°C
Schedules	8
Max. no. of modules	Up to 8 NX-507E and NX-508E on R128 and R12, 3 on R8
Dimensions	152 mm x 540 mm x 25 mm TBC
DAS Order Code	S4164

NX508-E Eight Output Expander



Description

Add 8 low current trigger, open collector outputs. Parallel interface for local printouts of all communicator activity.

Specifications

Compatible Control Panels	NX and Reliance
Operating Power	12 VDC
Auxiliary Power	Limited to 100 mA
NX508 Current Draw	10 mA with no outputs active
	25 mA with all outputs active + current draw of any device attached
Operating Temperature	0 to 49°C
Schedules	8
Max. no. of modules	Up to 8 NX-507E and NX-508E on R128 and R12, 3 on R8
Dimensions	152 mm x 540 mm x 25 mm TBC
DAS Order Code	S4128

ITI Wireless Receivers

Description

Add wireless sensors to the Hills Reliance system. Models include the NX-408 (8 zones), NX-416 (16 zones) and NX-448 (48 zones).



Specifications

Compatible Control Panels	NX and Reliance
Operating Power	12 VDC
Current Draw	20 mA max.
Operating Temperature	0 to 49°C
Dimensions	118 mm x 813 mm x 25mm
Frequency	433 MHz
Max. no. of modules	Any combination up to 48 zones on NX and 128 zones on Reliance
DAS Order Codes	S4135, S4134, S4136

ITI Wireless Accessories



Description

DAS Order Code

2-Button Keychain Remote	S5735
4-Button Keychain Remote	S5753
Pendant Panic Transmitter	S5744
Door/Window Sensor	S5731
Motion Sensor	S5732
Pet Immune Motion Sensor	S6663
Smoke Sensor	S6803
Glassbreak Sensor	S5467
ITI Wireless Repeater Kit	S2220

NX-588 USB Direct Connect Lead

Description

Updated version of the NX-586E Serial Direct Connect Lead. Allows copying, storing and restoring panel programming between sites without a laptop. Also allows connecting to panels using DL900 software.

Specifications

Compatible Control Panels	NX and Reliance
Operating Power	12 VDC
Current Draw	20 mA max.
Operating Temperature	0 to 49°C
Dimensions	118 mm x 813 mm
DAS Order Code	S1221A



Keychain Remote Kits



Description

Add remote arm/disarm and auxiliary relay control (e.g. garage door and lights). Kits come with 2 four-button keychain remotes.

Specifications

Operating Power	12 VDC
Current Draw	8 mA Standby 42 mA max.
Functions	Full Arm, Partial Arm, Disarm, Panic, Relay 1, Relay 2
Remote Dimensions	32 mm x 57 mm x 12 mm
Receiver Dimensions	78 mm x 104 mm x 76 mm
Relay Contact Rating	1 Amp continuous
Receiver IP Rating	55
Frequency	433 MHz
Max. no. of Remotes	6 per receiver
DAS Order Code	S1314A

DTMF Monitor

Description

For troubleshooting and testing. Listen in to DTMF tones

Specifications

DAS Order Code	S3079
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Technical Data Sheet

VoiceNav Code Pad

Description

VN01 VoiceNav Code Pad
Opal White, Vertical



Specifications

Operating Power	12 VDC
Current Draw	140 mA Max
Operating Temperature	0 to 50oC
Dimensions	80 mm x 120 mm x 16 mm
DAS Order Code	S1794A

LCD Code Pads

Description

NX-1448E Icon LCD Code Pad
NX-148E Alphanumeric LCD Codepad



Specifications

Operating Power	12 VDC
Current Draw	75 to 110 mA
Operating Temperature	0 to 49°C
Dimensions	165 mm x 135 mm x 20 mm
NX-1448E DAS Order Code	S2284
NX-148E DAS Order Code	S4145

LED Code Pads

Description

NX-1508-HILLS Vertex LED Codepad - 8 zones
NX-1516-HILLS Vertex LED Codepad - 16 zones



Specifications

Operating Power	12 VDC
Current Draw	30 mA to 100 mA
Operating Temperature	0 to 49°C
Dimensions	76 mm x 144 mm x 20 mm
NX-1508 DAS Order Code	S4158
NX-1516 DAS Order Code	S4157

NX-320 Remote Power Supply

Description

Extends communication bus by 800m, has 3 programmable outputs and 1 dedicated bell output. Max four (4) NX-320 power supply modules can be added. Tamper terminal.



Specifications

Compatible Panels	NX and Reliance Panels
Auxiliary Power	Limited to 2.0 Amps with 50 VA Limited to 1.5 Amps with 40 VA
Current Draw	10 mA max. when used with 16.5 VAC 40 or 50 VA Transformer
Operating Temperature	0 to 49°C
Dimensions	508 mm x 229 mm x 102 mm
DAS Order Code	S4137