



**surf**

*LTE Alarm System Communicator*

**Honeywell Alarm Panels  
Installation Guide**

V1.6

Firmware V1.0

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# 1. Dial Capture (Tip/Ring) Monitoring & Keyswitch

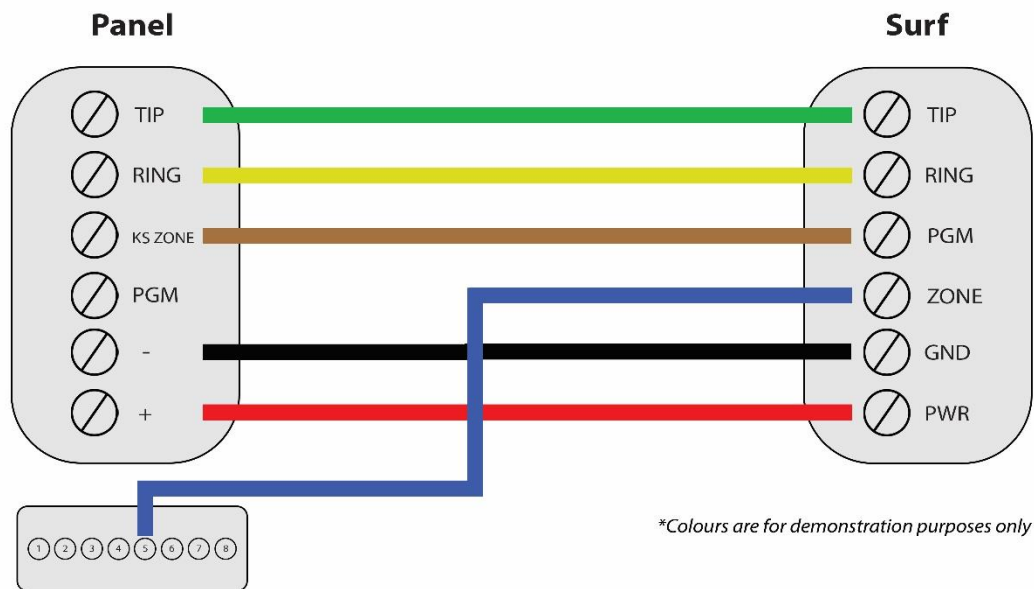
For Honeywell alarm panels that do not support keybus, use Tip/Ring and keyswitch to monitor and control your system remotely.

After installation, for proper partition mapping onto Aryo cloud and keyswitch arming, follow the instructions below:

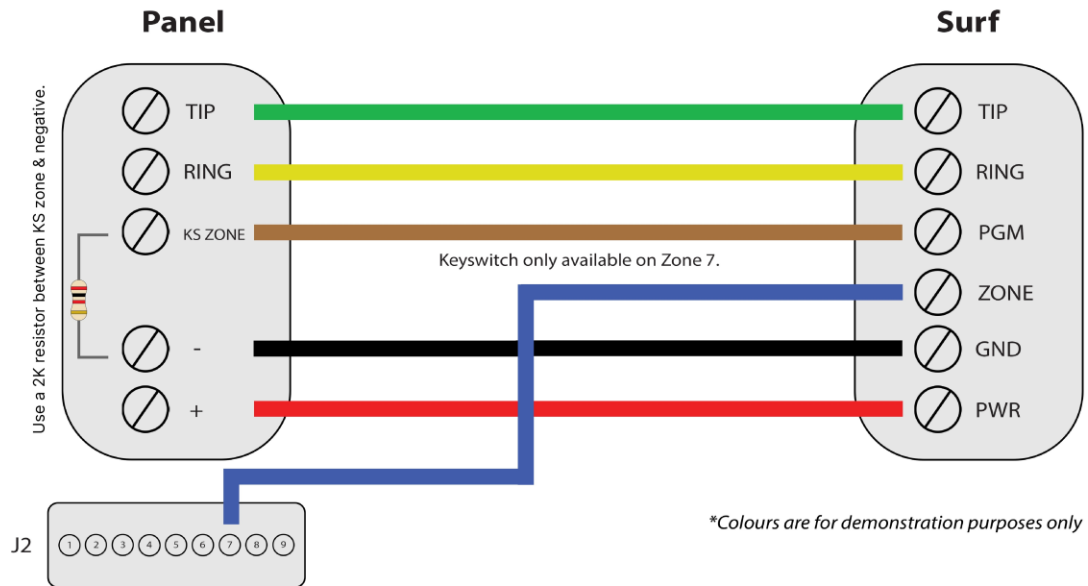
- *Partition mapping:* Operate on the alarm panel and send signals from each partition. Then, wait for the corresponding event on Aryo cloud, before initiating the next signal.
- *Keyswitch arming:* Enable keyswitch arming for the intended partition via Aryo cloud settings. Arm/disarm the partition from the user app. Then, wait for confirmation events on Aryo cloud before initiating subsequent actions.

## a. Wiring Diagram

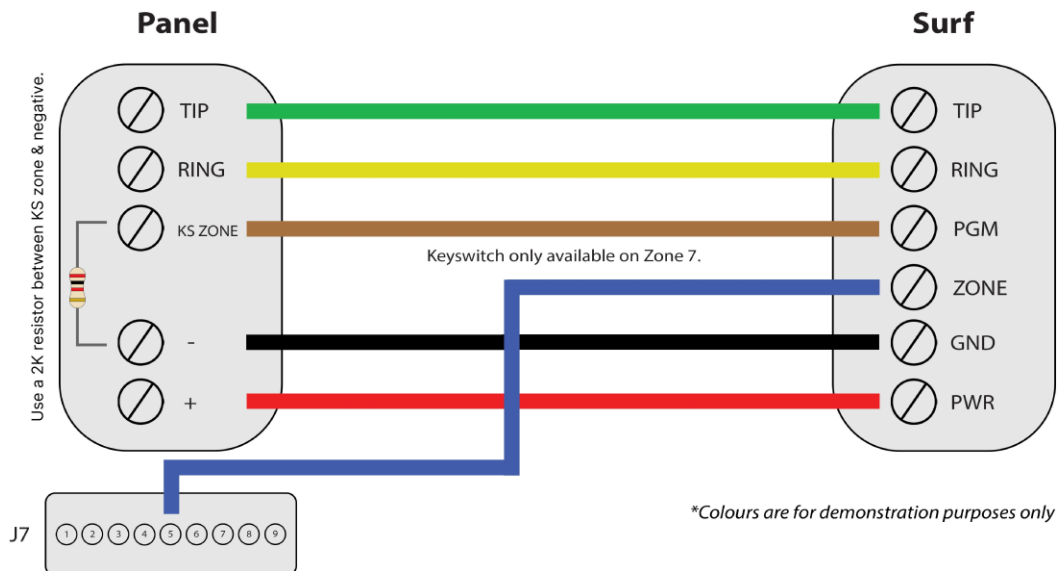
### i. 10P/15P/20P/21ip/48LA



ii. Vista 32FB/128FBP



iii. Vista 50P/40



## b. Programming Instructions

To monitor Honeywell alarm panels with dial capture, program your system as described below. Instructions in *italics* are for optional remote arming with keyswitch. PGM on Surf can be connected to any zone programmed as keyswitch for remote arming functionality.

Note that the partition assigned for keyswitch arming (set on both Aryo cloud settings and panel programming), must be the same as the partition assigned for alarm panel PGM. In this programming section, it is assumed that the intended partition for alarm panel PGM1 is partition 1.

### i. Vista 10P/15P/20P/21ip/48LA

Section	Description
*29	Enter 0* to disable long range radio.
*41	Enter any phone number.
*43	Enter an account number for partition 1.
*48	Set the report format to 7 for CID.
*49	Enter 0 to set Split/Dual Report all to primary.
*50	Enter 0 for dialer delay.
*55	Enter 0 to give priority to the dialer.
*64	Enter 1 for each entry to enable test report.
*65-*66	Enter 1 to enable open/close reporting for partition 1. Enter 0 for the common partition.
*70	Enter 1 to enable alarm restore report codes.
*56	<i>Set a zone to 77 for keyswitch arming on partition 1.</i>
*79	<i>Set to 1 (normally low) for OUTPUT 17.</i>
*80	<i>Follow the below table for PGM outputs programming.</i>

Keypad Display	Partition 1
<i>Define the first function</i>	
<b>Output funct#*</b>	01
<b>Activated by</b>	2
<b>Zn Type</b>	20 (stay arm)
<b>Partition</b>	1
<b>Output action</b>	0 (off)

<b>Output No.</b>	17
<i>Define the second function</i>	
<b>Output funct#</b>	02
<b>Activated by</b>	2
<b>Zn Type</b>	21 (away arm)
<b>Partition</b>	1
<b>Output action</b>	0 (off)
<b>Output No.</b>	17
<i>Define the third Function</i>	
<b>Output funct#</b>	03
<b>Activated by</b>	2
<b>Zn Type</b>	22 (disarm)
<b>Partition</b>	1
<b>Output action</b>	2 (stay closed)
<b>Output No.**</b>	17

\*This part is only for assigning a label.

\*\*Check other functions defined in this section to make sure they are not using pin 17 as output.

## ii. Vista 128BP/128SIA

Section	Description
*32	Enter a system account number.
*33	Enter any phone number.
*45	Set the report format to 1 for CID.
#93-REPORT CODE PROG.	Enter to "SYSTEM GROUP 1" menu and set 01 for both open and close reports.
#93-REPORT CODE PROG.	Enter to "SYSTEM GROUP 2" menu and set 01 to enable stay reporting.
*15	<i>Enter 1 to enable keyswitch for partition 1.</i>
*40	<i>Enter 1 to enable open/close reporting for keyswitch.</i>
2*20	<i>Enter 1 to enable J7 triggers for partition 1.</i>
#93-OUTPUT PGM	<i>Define output functions.</i>

## iii. Vista 50P/40

Section	Description
*32	Enter a system account number.
*33	Enter any phone number.
*45	Set the report format to 1 for CID.
*54	Enter 11 to enable reporting for all zones in partition 1.
*79-*80	Enter 1 to enable alarm restore reporting for all zone types.

*81	Enter 11 to for both open and close reports
*15	<i>Enter 1 to enable keyswitch for partition 1.</i>
*40	<i>Enter 1 to enable open/close reporting for keyswitch.</i>
1*46	<i>Set Out 1 function to 1 for keyswitch armed status monitoring.</i>
2*20	<i>Enter 1 to enable J7 triggers.</i>

**iv. Vista 32FB/128FBP**

<b>Section</b>	<b>Description</b>
*32	Enter a system account number.
*33	Enter any phone number.
*45	Set the report format to 1 for CID.
*79-*80	Enter 1 to enable alarm restore reporting for all zone types.
*85	Enable all panic/duress reporting.
#93	Disable zone 974 in zone programming to disable TLM (Telephone Line Monitoring).
*15	<i>Enter 1 to enable keyswitch for partition 1.</i>
*40	<i>Enter 1 to enable open/close reporting for keyswitch.</i>
2*20	<i>Enter 1 to enable J2 triggers for partition 1.</i>
3*19	<i>Set to 0.</i>
3*20	<i>Set to 0 for keyswitch armed status monitoring through Out 1 (pin 7).</i>

## **2. Dial Capture (Tip/Ring) Monitoring**

For Honeywell alarm panels that do not support keyswitch, use Tip/Ring to monitor your system remotely.

To accurately map alarm panel partitions onto Aryo cloud, operate on the alarm panel and send signals from each partition. Then, wait for the corresponding event on Aryo cloud, before initiating the next signal.

## a. Wiring Diagram

### i. FA162C, Vista 10/10SE/15/15SE, VIA30, FA147C/148C, LYNX 5100/5210



*\*Colours are for demonstration purposes only*

## b. Programming Instructions

To monitor Honeywell alarm panels with dial capture, program your system as described below.

### i. FA162C

Section	Description
*41	Enter any phone number.
*43	Enter an account number for the panel.
*48	Set the report format to 7 for CID reporting.
*65-66	Enter 1 in each entry to enable open/close reporting.
*70	Enter 1 to enable alarm restore reporting.

### ii. Vista 10/10SE, VIA30, FA147C/148C

Section	Description
*41	Enter any phone number.



*43	Enter an account number for the panel.
*46	Set the report format to 07 for CID reporting.
*65-66	Enter 1 in each entry to enable open/close reporting.
*70	Enter 1 to enable alarm restore reporting.

**iii. Vista 15/15SE**

Section	Description
*41	Enter any phone number.
*43	Enter an account number for the panel.
*46	Set the report format to 07 for CID reporting.
*65-66	Enter 1 in each entry to enable open/close reporting.
*70	Enter 1 to enable alarm restore reporting.
*92	Set to 0 to disable TLM.

**iv. LYNX 5100/5210**

Section	Description
Reporter – Primary CS Info – Phone type	Set to CID 4 digit or SIA.
Reporter – Primary CS Info – Phone Number	Enter any phone number.
Reporter – Primary CS Info – Account Number	Enter an account number for the panel.
Reporter – Primary CS Info – Report Alarms	Enable alarm reporting.
Reporter – Primary CS Info – Report Open/Close	Enable open/close reporting.
Reporter – Report Selection	Enable open/close and alarm/restore reporting.