EPIC SAFETY

surf-k & surf-km

LTE Primary Alarm Communicators

Paradox Alarm Panels

Installation Guide

V1.6

Firmware V1.0

Contents

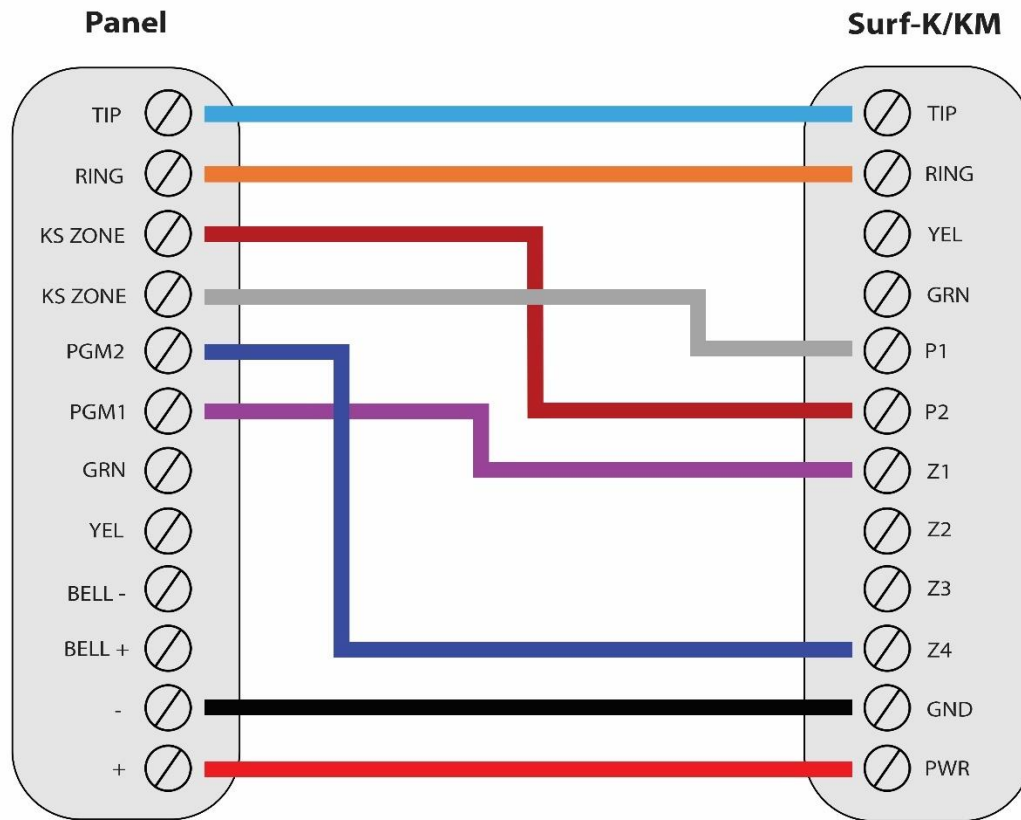# 1. Dial Capture (Tip/Ring) Monitoring & Keyswitch

For Paradox panels that support CID or SIA formats, 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 <u>each</u> partition. Then, wait for the corresponding event on Aryo cloud, before initiating the next signal.

- *Keyswitch arming*: Enable keyswitch arming for the intended partitions via Aryo cloud settings. Arm/disarm <u>each</u> partition (if applicable) from the user app. Then, wait for confirmation events on Aryo cloud before initiating subsequent actions.

a. Wiring Diagram

i. SP1728(EX)/1738(EX)/728(EX)/738(EX)/4000/5500/6000/7000, EVO 192/HD

Panel

Panel	Surf-K/KM
TIP	TIP
RING	RING
KS ZONE	YEL
KS ZONE	GRN
PGM2	P1
PGM1	P2
GRN	Z1
YEL	Z2
BELL -	Z3
BELL +	Z4
-	GND
+	PWR

Colours are for demonstration purposes only

b. Programming Instructions

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

i. SP1728(EX)/1738(EX)

Section	Description
131	Turn option 1 on to report disarming.
135	Turn options 1 and 2 off, to disable TLM, on and options 3 and 4 on, to enable DTMF dialing.
136	Turn option 3 on for automatic CID reporting codes.

140	Set 1st digit to 5 to enable CID.
143-144	Enter an account number for each partition.
151	Enter any phone number.
001-016	*Set an on-board zone to 7 for keyswitch and turn option 1 on for partition 1 (set another for partition 2).*
066-068	*Set the PGM delay to 0 (follow deactivation).*
120	*Set PGM1 activation to 02 10 01 for partition 1 armed status monitoring.*
121	*Set PGM1 deactivation to 02 09 01.*
122	*Set PGM2 activation to 02 10 02 for partition 2 armed status monitoring.*
123	*Set PGM2 deactivation to 02 09 02.*

ii. EVO 192/HD

Section	Description
[3035]	Turn option 6 off for multi-partition.
[3036]	Turn options 1 and 2 off, to disable TLM, on and options 3 and 4 on, to enable DTMF dialing.
[3061]-[3068]	Enter an account number for each partition.
[3070]	Select 5 or 6 for CID or SIA reporting, respectively.
[3071]	Enter any phone number.
[0101]-[0196]	*Select a zone for partition 1 keyswitch arming (and another for partition 2). Enter 01 for partition 1 (or 02 for partition 2) in the corresponding section.*
[0501]-[0532]	*Enter panel serial number and set input # to 001 for each keyswitch used.*
[0601]-[0632]	*Enter 11 for partition 1 momentary keyswitch (or 12 for partition 2), in the section corresponding to the keyswitch zone(s). Turn all options off.*
[0910]-[0913]	*Set activation event group to 064, feature group to 001, start and end # to 000 for partition 1 armed status monitoring.*
[0920]-[0923]	*Set activation event group to 064, feature group to 002, start and end # to 000 for partition 2 armed status monitoring.*
[0914]-[0917]	*Set deactivation event group to 014, feature group to 000, start and end # to 000 for partition 1.*
[0924]-[0927]	*Set deactivation event group to 014, feature group to 000, start and end # to 000 for partition 2.*

iii. SP728(EX)/738(EX) (V 3.10)

Section	Description
086	Turn options 1, 2nd off to disable TLM, option 11 off and option 12 on, to select regular reporting.
038	Set to 0 (key 10) for automatic CID reporting codes.
016-023	Enter any phone number.
032-035	Enter an account number.
086	*Turn option 3 on, and option 2 off for momentary keyswitch.*
039	*Set to 2nd to enable normally open PGM.*
040	*Set to 2/9 for armed status output.*
042	*Set to 2nd/3 for armed status output.*

iv. SP4000

Section	Description
800	Turn options 1 and 2 off to disable TLM.
801	Turn option 1 off for disarm reporting.
802	Turn options 1 and 5 on for alarm/restore and open/close reporting.
810	Select 4 for CID or 5 for SIA.
811-812	Enter an account number for each partition.
815	Enter any phone number.
001-032	*Enter 26 to set a zone to momentary keyswitch (first entry) for partition 1.*
220	*Set PGM1 activation event group to 02 and sub-group to 12 to select "Arm partition". Enter 01 to assign it to partition 1.*
221	*Set PGM1 deactivation event group to 02 and sub-group to 11 to select "Disarm" for partition. Enter 01 to assign it to partition 1.*
261	*Turn option 2 off for normally open PGM operation.*
281	*Set PGM delay time for PGM 1 to 000.*

v. SP5500/6000/7000

Section	Description
800	Turn options 1, 2 off to disable TLM.
801	Turn option 1 off for disarm reporting.

802	Turn options 1 and 5 on for alarm/restore and open/close reporting.
810	Select 4 for CID or 5 for SIA.
811-812	Enter an account number for each partition.
815	Enter any phone number.
001-032	*Enter 26 to set a zone to momentary keyswitch for partition 1 (set another to keyswitch for partition 2).*
220	*Set PGM1 activation event group to 02 and sub-group to 12 to select "Arm partition". Enter 01 to assign it to partition 1.*
221	*Set PGM1 deactivation event group to 02 and sub-group to 11 to select "Disarm" for partition. Enter 01 to assign it to partition 1.*
222	*Set PGM2 activation event group to 02 and sub-group to 12 to select "Arm partition". Enter 02 to assign it to partition 2.*
223	*Set PGM2 deactivation event group to 02 and sub-group to 11 to select "Disarm" for partition. Enter 02 to assign it to partition 2.*
261-262	*Turn option 2 off for normally open PGM operation.*
281-282	*Set PGM delay time for PGMs 1 & 2 to 000.*