

Reference Manual

Model: BluKey Select™



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#### Introduction

The turnkey PayRange payment system includes a BluKey hardware device for the machine along with a mobile app and transaction processing service for the consumer. Consumers maintain a prepaid balance on their smartphones and use it to make payments at a variety of machines that can include vending, amusement, parking, transit ticketing, and laundry equipment.

BluKey Select (BKSelect) device provides mobile payment functionality for vending machines with MDB and works with virtually any vending machine and other kinds of machines that accept payments from MDB payment devices. Additionally, BKSelect connects to vending machine keypads to provide customers touchless selection of product on their phone.

BKSelect supports installation into older machines that do not have MDB CPD2 but have an installed card reader.

RTC (real-time clock) support timekeeping in case of power outage.

DEX connector can support remote DEX/UCX functionality.

Installing BluKey Select takes just 2-3 minutes and requires only plugging in an appropriate cable harness into the machine.

PayRange BluKey Select™ Mobile Payment System consists of:

- BluKey Select™ (accepts payments from PayRange mobile app)
- MDB Cable Harness (usually part of the machine)
- Keypad Cable Harness (connects BluKey Select to Machine Keypad), includes Config plug

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- Optional Card Harness (connects BluKey Select to Card reader installed in the Machine)
- Optional DEX Cable Harness

Vending Machine	Machine Coin/Bill Acceptor and Card Readers	Cable Harness / Installation Kit	BluKey Select™
	INSERT BILL HERE ACCEPTS 18.55	MDB Machine (TBD PICTURE)	
	To Activate Machine Swipe or Tap Here  VISA  Reservation  Activate Machine Swipe or Tap Here  VISA  Reservation  Pay  Activate Machine Swipe or Tap Here  VISA  Reservation  Pay  Activate Machine Swipe or Tap Here  VISA  Reservation  Pay  Activate Machine Swipe or Tap Here  VISA	MDB Card (TBD PICTURE)	

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	(TBD PICTURE)	DEX (TBD PICTURE)	
A B C D E F G H J 1 2 3 4 5 6 7 8 9 * 0 #			

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#### Before Installation

- 1. Create your PayRange Operator Account
  - a. Go to <a href="http://manage.payrange.com">http://manage.payrange.com</a>.
  - b. Sign up for a customer account. If you already have a customer account, Sign in.
  - c. Once logged in, click Create an Operator Account (may need to click Account first).
  - d. Select **Operator Sign up** (at the bottom of the page), follow prompts to create your account.
  - e. Setup ACH for payment with your bank routing and account number.

**Note:** Though it is possible to skip banking information, Weekly payments will commence only after banking is setup, and there are mobile sales.

f. Issue free vend code for installation tests.

See video: https://www.youtube.com/watch?v=Xxbb3XjKKx0

OFFERS > Create Offer >

Offer Type: Free Vend

Description: Technician free vend offer

Max Vend Amount: <enter amount to cover wash/dry cycle>

Enter any other necessary information

Click "Create Offer" button

Copy offer codes and send them to installation technician(s) (via email or text)

#### 2. Setup for Your Machine Installers

#### Prepare Installers:

- a. Download and install the PayRange app.
- b. Load funds to the app with a credit/debit card, or issue free vend code.
- c. Prepare additional point of sale material such as table tents, location flyers, and location posters. These can be downloaded free at <a href="https://www.payrange.com/resources">https://www.payrange.com/resources</a>.

**Note:** Because the PayRange device is inside the machine, the users won't know it is there unless you tell them. The more you do to promote PayRange, the quicker they will become loyal users of your machines.

- d. Provide necessary tools and supplies
  - i. BluKey Select device
  - ii. Keypad Harness for the machine

See document "Touchless Keypad Harness Summary" to choose appropriate harness.

- iii. Harness for card reader (if machines are equipped with card readers)
- iv. Room key and necessary building access cards
- v. Operator (Installer / Service) key for the machine
- vi. Smartphone, tablet or connected laptop with PayRange app

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vii. Installer login & password into Operator Account

### **Installation Steps**

These are generic installation instructions. Each individual machine and harness may have additional steps or details relevant to installation.

1. Disconnect power from the machine

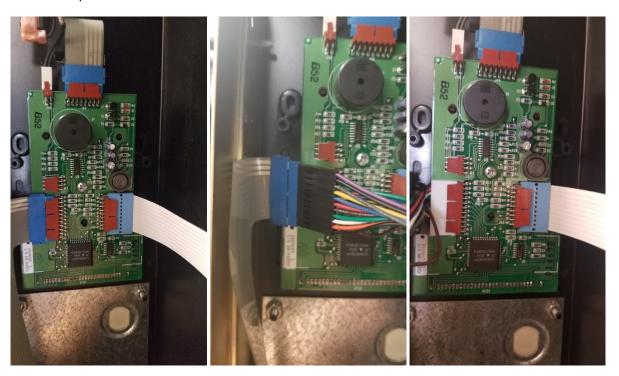
**Important!** Avoid electric shock and damage to the machine and BluKey Select. Always disconnect power from the machine BEFORE opening the machine cabinet.

#### 2. Open machine cabinet

Unlock door/panel with operator/service key if needed, open the machine door/panel and position as necessary for service.

 Connect Keypad Harness to Machine Keypad and Machine Control

See Installation Manual for the Keypad Harness. Below is a representative example.



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4. Connect configuration plug to CONF connector

See Installation Manual for the Keypad Harness.

(TBD PICTURES)

- 5. Plug Keypad Harness into BluKey Select KEYPAD connector
- 6. Plug MDB Machine harness into BluKey Select MACHINE connector

(TBD PICTURES)

- 7. Is Card Reader Present? No – Skip to step # 11
- 8. Does machine support CPD2?

Yes - Skip to step # 10

No - Continue to step # 9

- 9. Machine with no CPD2 support: Connect Card Reader to BluKey Select CARD connector
  - a. Disconnect card reader cable from machine MDB connector
     If card reader is connected to power

separately, keep that connection.

- b. Plug MDB Card harness into BluKey Select CARD connector
- c. Plug in card reader cable into MDB Card harness

Continue to step # 11

- 10. Machine with CPD1/CPD2 support: Connect Card Reader to BluKey Select MDB harness
  - a. Disconnect card reader cable from machine MDB connector

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If card reader is connected to power separately, keep that connection.

b. Plug in card reader cable into card connector on MDB harness

# 11. Connect BluKey Select to Machine MDB connector

- 12. Power up the machine (leave the machine door/panel open)
- 13. BluKey Select should power up and turn on solid blue LED

Note: Some machines disable payment when service panel is open – BluKey Select will be blinking red LED. Manually pressing on service panel switch should let BluKey Select turn on solid blue LED.

See section "Troubleshooting / Light Codes" on page 18 if BluKey Select does not power up or does not turn on solid blue LED.

#### 14. Configure BluKey Select

See section "BluKey Select Device Configuration" on page 9.

- 15. Power off the machine
- 16. Place wires and BluKey Select inside the machine

Position BluKey Select near the control panel.

Tie loose cables with zip-ties.

- 17. Close machine door/panel
- 18. Power up the machine
- 19. Verify machine operation

Check mobile payment, coin payment, keypad vend and touchless vend and verify that PayRange app shows "Machine in Use" when vending is in progress

#### 20. Place PayRange stickers on the machine

Place "Pay with PayRange" sticker on the machine front.

Place "PayRange overview" sticker in the room.

### BluKey Select Device Configuration

1. Register BluKey Select device (using website)

Note: This can be prepared off-site, before installation.

a. Login with your operator account to the Manage website at https://manage.payrange.com

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- b. Click **DEVICES** > **Register** in the left panel
- c. Enter device Serial number and Pin (from BluKey Select back label)
- d. Enter Display name (it will be shown in the app to customers)
- e. Enter other relevant information (laundry/machine type, location name, address, etc.)
- f. Optionally: upload picture of the machine number sticker to the "Picture" field (if picture is not uploaded, a standard machine number picture will be shown in the app)
- g. If there is a PayRange decal for the machine, attach the decal to the machine. If there is a scan to pay QR code, enter Scan to Pay number from the decal

#### Complete device registration:

h. Click the **Register** button to complete device registration

#### 2. Register BluKey Select device (using mobile app)

Note: When done filling information on the screen, click **Next** button to advance. Use **Back** button if need to return and correct any information.

- a. Open PayRange app, Sign In with your operator account (if not logged in)
- b. Click on the hamburger menu (top left), select **Operator Mode > Register Device**
- c. Enter device Serial number and Pin (from BluKey Select back label), or click camera icon and scan the barcode
- d. Enter Display name (usually it is a number from machine sticker for customer)
- e. Enter other relevant information (machine type, location name, address, etc.)
- f. Note: Picture of the machine will be automatically generated.
- g. If there is a PayRange decal for the machine, attach the decal to the machine. If there is a scan to pay QR code, enter Scan to Pay number from the decal
- h. Click the **Register** button to complete device registration
- Proceed to section "Configure BluKey Select device for payment (using website)" below

#### 3. Configure BluKey Select device for payment (using website)

Note: This can be prepared off-site, before installation.

- a. Login with your operator account to the Manage website at <a href="https://manage.payrange.com">https://manage.payrange.com</a>
- b. Enter device Serial number (from BluKey Select back label) into search box at the top, click **Search > Search Device**
- c. Click on the Device ID in search results to open Device view
- d. Click Edit Device

#### Complete device configuration:

i. Click **Update** 

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### BluKey Select Reference

#### Interfaces



- 1. DEX Connector
- 2. MACHINE (MDB in) Connector
- 3. Button
- 4. Power/Status LED
- 5. CARD LED
- 6. CARD (MDB out) connector
- 7. CONF connector
- 8. KEYPAD connector

#### Connectors

The "MACHINE" connector for connecting to MDB machine with MDB Cable Harness, KEYPAD connector for Keypad Cable Harness and CONF connector for configuration plug.

With an appropriate keypad harness and configuration plug BKSelect can be connected to keypad on any MDB machine type to provide touchless product selection.

The "CARD" MDB connector that can be used for installation into machines that only support CPD1 but already have a card reader.

#### **Absolute Maximum Ratings**

Symbol	Description	Min	Max	Unit	Notes
T <sub>STG</sub>	Storage temperature	-40	85	°C	1
V <sub>CCDCF_MAX</sub>	MDB/GND Power supply, DC (filtered)	-0.3	50	VDC	peak
V <sub>CCDCU_MAX</sub>	MDB/GND Power supply, DC (unfiltered)	-0.3	50	VDC	peak
I <sub>CARDDC_OUT_PK</sub>	MDB_OUT/GND output current		2000	mA	peak

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I <sub>DD3O_MAX</sub>	CONF 3.3V power supply output, DC	-	300	mA	
V <sub>DI</sub>	Digital input voltage	-0.3	$V_{DD} + 0.3$	V	2
I <sub>DO</sub>	Digital output current		±50	mA	
V <sub>KEY_MAX</sub>	KEYPAD connector operating voltage		60	VDC	
I <sub>KEY_MAX</sub>	KEYPAD connector operating current		100	mA	

- 1. Determined according to JEDEC Standard JESD22-A103, High Temperature Storage Life.
- 2.  $V_{DD}$  is 3.3V internal reference on CONF connector.

### **Operating Conditions**

Symbol	Description		Min	Тур	Max	Unit
To	Operating temperature range		-30	-	70	°C
$V_{CCDC}$	MDB/GND Power supply, DC		9	34	41	VDC
I <sub>CC34</sub>	Power supply current, max (@ 34VDC)		-	-	90	mA
Ucc	Power consumption		-	-	3.03	W (1)
I <sub>CARDDC_OUT</sub>	MDB_OUT/GND output current		-	-	1000	mA
$V_{DD3O}$	CONF 3.3V power supply output, DC		+3.13	-	+3.47	V
I <sub>DD3O</sub>	CONF 3.3V power supply output, DC		-	-	100	mA
I <sub>MDBIL</sub>	MACHINE connector input current low		-	-	100	μΑ
I <sub>MDBIH</sub>	MACHINE connector input current high @4	V	-	-	15	mA
I <sub>MDBOL</sub>	MACHINE connector output current low		-	-	30	μΑ
I <sub>MDBOH</sub>	MACHINE connector output current high @	1V	-	-	15	mA
I <sub>MDBOSNIFF</sub>	MACHINE connector output sniff current		-	-	0.45	mA
I <sub>VMCIL</sub>	CARD connector input current low		-	-	1	mA
I <sub>VMCIH</sub>	CARD connector input current high @1V		15	-	-	mA
I <sub>VMCOL</sub>	CARD connector output current low		-	-	100	μΑ
I <sub>VMCOH</sub>	CARD connector output current high @4V		100	-	-	mA
V <sub>CONFIL</sub>	CONF Input logic level low				V <sub>DD</sub> *0.4	V (2)
V <sub>CONFIH</sub>	CONF Input logic level high		*0.6+0.4	-	-	V (2)
V <sub>CONFOH</sub>	Output high voltage (I <sub>O</sub> = -32mA)		/ <sub>DD</sub> -0.7	-	-	V (2)
$V_{CONFOL}$	Output low voltage (I <sub>O</sub> = +32mA)		-		0.55	V
R <sub>KEY</sub>	KEYPAD connector closed contacts resistance		-	-	50	Ohm

- 1. Power consumption excludes load on CARD connector by external card reader.
- 2.  $V_{DD}$  is 3.3V internal reference on CONF connector.

#### ESD handling ratings

Symbol	Description	Min.	Max.	Unit	Notes
V <sub>HBM</sub>	Electrostatic discharge voltage,		+2000	V	1
	human body model				
V <sub>CDM</sub>	Electrostatic discharge voltage,	-500	+500	V	2
	charged-device model				
I <sub>LAT</sub>	Latch-up current at ambient temperature of	-100	+100	mA	3
	105°C				

1. Determined according to JEDEC Standard JESD22-A114, Electrostatic Discharge (ESD) Sensitivity Testing Human Body Model (HBM).

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- 2. Determined according to JEDEC Standard JESD22-C101, Field-Induced Charged-Device Model Test Method for Electrostatic-Discharge-Withstand Thresholds of Microelectronic Components.
- 3. Determined according to JEDEC Standard JESD78, IC Latch-Up Test.

#### **RF** Specifications

Symbol	Description		Max.	Unit	Notes
F <sub>RF</sub>	RF Frequency range (Bluetooth 4.1)	2402	2483.5	MHz	
P <sub>RFO</sub>	RF Output power		4.91	dBm	
S <sub>RFI</sub>	RF Sensitivity (at 0.1% BER)	TBD		dBm	

#### **Connector Pinouts**

#### a. "MACHINE" (MDB in) Connector (6-pin)

"MACHINE" connector is suitable for powering BluKey Select from 24V AC, 12VDC and other low-voltage power supplies and has inputs for low-voltage signals.

"MACHINE" Connector		BluKey Select	Cable / Mating part	
			anna a	
	Molex 2	2-05-3061 (KK254)	Molex 0022013067	
Pin	Name	Note	es	
1	MDB_COM	MDB data common		
2	MDB_TXD	MDB transmit data (BKSelect inpu	ut)	
3	MDB_RXD	MDB receive data (BKSelect outp	ut, Sniff input)	
4	(NC)			
5	MDB_GND	MDB power supply common		
6	MDB_V	MDB power supply		

#### b. "CARD" (MDB out) Connector (6-pin)

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<sup>&</sup>quot;CARD" connector is to support additional card reader.

"CA	ARD" Connector	BluKey Select	Cable / Mating part	
	Molex 003	9301060 (Mini-Fit Jr)	Molex 0039012060	
Pin	Name	Not	es	
1	MDB_OUT	MDB power supply (pass through	from MACHINE)	
2	MDB_GND	MDB power supply common		
3	(NC)			
4	VMC_RXD	MDB VMC receive data (BKSelect input)		
5	VMC_TXD	MDB VMC transmit data (BKSelect output)		
6	VMC_GND	MDB data common		

### c. "CONF" Connector (6-pin)

"CONF" connector is provided to select Keypad harness configuration.

"CONF" Connector		BluKey Select	Cable / Mating part	
	Molex 043	30450601 (Micro-Fit)	Molex 0430250600	
Pin	Name	Notes		
1	CONF0	Config input		
2	CONF1	Config input		
3	CONF2	Config input		
4	CONF3	Config input		
5	3V3_OUT	3.3V output		
6	GND	Ground		

### d. "KEYPAD" Connector (24-pin)

"KEYPAD" connector is provided for Keypad harness.

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"KEYPAD" Connector		BluKey Select	Cable / Mating part	
	Molex 043	30452400 (Micro-Fit)	Molex 0430252400	
Pin	Name	Note	es	
1	KEY_COM	Common for all KEYn		
2	KEY1			
3	KEY2			
4	KEY3			
5	KEY4			
6	KEY5			
7	KEY6			
8	KEY7			
9	KEY8			
10	KEY9			
11	KEY10			
12	KEY11			
13	KEY_COM	Common for all KEYn		
14	KEY1			
15	KEY2			
16	KEY3			
17	KEY4			
18	KEY5			
19	KEY6			
20	KEY7			
21	KEY8			
22	KEY9			
23	KEY10			
24	KEY11			

### e. "DEX" (UCX) Connector (3-pin)

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<sup>&</sup>quot;DEX" connector is for permanent connection to vending machine DEX port.

"D	EX" Connector	BluKey Select	Cable / Mating part
	Molex 2	2-05-3031 (KK254)	Molex 0022013037
Pin	Pin Name Notes		
1	GND	DEX data common	
2	DEX_TIP_RXD	DEX receive data (BKSelect input)	_
3	DEX_RING_TXD	DEX transmit data (BKSelect output)	

#### f. "Battery Connector Pinout

BKSelect battery connector is JST SM02B-SURS-TF (2-pin) to connect backup battery for the internal real-time-clock.

Pin	Name	Notes		
1	3V_IN	(+) 3V from battery		
2	GND	(-) Common		

#### Notes:

 Recommended CR1632. Only lithium-based 3V watch coin cell batteries are supported (e.g. CR2016, CR2032).

#### g. Recommended Mating Parts

MACHINE Connector: Molex 0022013067 (KK254)

CARD Connector: Molex 0039012060 (Mini-Fit Jr.)

Battery Connector: JST 02SUR-32S

DEX Connector: Molex 0022013037 (KK254)

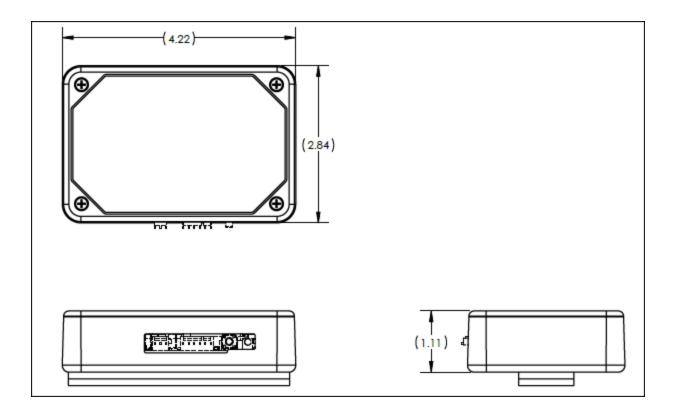
CONF Connector: Molex 0430250600 (Micro-Fit)

KEYPAD Connector: Molex 0430252400 (Micro-Fit)

#### Mechanical

BluKey Select dimensions (inches) are given in the following figure.

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### Regulatory Approval

#### Modification statement

PayRange has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

#### **United States**

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference; and
- (2) This device must accept any interference received, including interference that may cause undesired operation

To satisfy RF exposure requirements, this device and its antenna must operate with a separation distance of at least 20 cm from all persons.

#### Canada

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference received, including interference that may cause undesired operation of the device.

To satisfy RF exposure requirements, this device and its antenna must operate with a separation distance of at least 20 cm from all persons.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Pour satisfaire aux exigences d'exposition RF, cet appareil et son antenne doivent fonctionner à une distance de séparation d'au moins 20 cm de toutes les personnes.

#### Device Labelling

FCC ID: 2AF78-01778

IC: 21341-01778 10.01778

### Troubleshooting / Light Codes

Symptom	LED Pattern	Cause	Fix
BKSelect LED is solid		BluKey Select ready	(Normal operation)
blue			
		Machine not powered	Power on the machine

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Symptom	LED Pattern	Cause	Fix
BKSelect LED does		Power is not provided	Check / reconnect harness
not light up	(No power)	on machine's harness	connectors.
			Use alternative power source per
			section "Error! Reference source not
			found."
		Harness not compatible	Check and select appropriate
2101 1152 111			harness type
BKSelect LED is solid		BluKey Select is in	Contact PayRange for support
red		wrong mode	Defends marshing manual to small a
BKSelect LED slowly	(Dischlad b	Machine is not	Refer to machine manual to enable
flashes red	(Disabled by	accepting payments	payments / return to enabled state.
DVC aloat LED aloudy	machine)	Machine is in use	Weit for most in a to complete its
BKSelect LED slowly flashes red/blue	(Machine in	Machine is in use	Wait for machine to complete its
liasiles reu/blue	use)		cycle.  Machine accepts payments (top-off).
BKSelect LED blinks	usej	Coin drop detected	(Normal operation)
off	(Coin drop)	com drop detected	(Normal operation)
BKSelect LED flashes	(((()))	No payments for last 24	Power-cycle BluKey Select to reset
series of red/blue		hours	the warning. Check if machine has
, , , , , , , , , , , , , , , , , , , ,			any problems running.
BKSelect LED slowly		Communicating with	(Normal operation)
flashes blue		Арр	
BKSelect LED slowly		Transaction in progress	(Normal operation)
flashes purple			
BKSelect LED quickly		Upgrading	Keep power on until done
flashes blue			
BKSelect LED quickly		BluKey Select hardware	Replace BluKey Select
flashes red		error	
BKSelect LED quickly	<b>((()</b>	BluKey Select hardware	Replace BluKey Select
flashes blue, flashes		error	
red, repeats		Unicadina transations	(Name of a name time)
BKSelect LED quickly		Uploading transactions,	(Normal operation)
flashes purple  Mobile payment		Downloading upgrades  1. Check if BluKey Selection	ct is in Ready state / BluKey Select LED
does not work		is solid blue.	ct is iii Reduy state / Blukey Select LED
does not work			ct flashes "Transaction in progress"
		1	nobile payment. If not, check Internet
		/ data connection or	
		_ ·	check if "pulse on" time in device
			s set correctly (see section "Configure
			for payment (using website)").
Coin count does not			coin acceptor sensor/switch.
work		2. Check for correct po	larity of connection to coin acceptor
		sensor/switch.	

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Symptom	LED Pattern	Cause Fix
		<ol> <li>Check if coin count input is configured properly for the harness in Manage (see section "Error! Reference source not found.").</li> </ol>
App does not show		Check harness connection to BKSelect and to machine
"Machine in Use" during cycle		<ol> <li>Check if Inhibit/Available signals are configured properly for the harness in Manage (see section "Error! Reference source not found.").</li> </ol>
Machine does not accept coins		<ol> <li>Check if machine accepts coins if BluKey Select harness is disconnected from the machine's coin harness (can disconnect harness from BluKey Select). If not, replace coin acceptor and its harness.</li> <li>Check machine's wiring (a loose wire in connector pin could be causing coin sensor/switch disconnects).</li> <li>For optical coin sensors: Clean coin sensor optics or replace coin sensor or coin acceptor assembly.</li> </ol>

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### Appendix B: BluKey Select Firmware Upgrade

PayRange may release firmware updates with new functionality and improvements.

BKSelect firmware is upgraded automatically, in the background.

Contact PayRange support for additional information on firmware upgrades.

### Contacting PayRange Support

For assistance with installing and operating your BluKey Select devices, please contact our support group:

1. For Technical Support:

2. For Sales and Marketing Support:

**Phone:** +1 (855) 856-6398 (menu option 1) **Phone:** +1 (855) 856-6398 (menu option 2)

**Email:** <u>support@payrange.com</u> **Email:** <u>sales@payrange.com</u>

### **Document History**

Part Number 23.00xxx-xx

Issue	Date	Reason
0.1	25 May 2021	Initial Release – DRAFT 1

(Trademarks)

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