Fontus - Motor Control

Installation Instructions

1 Motor Control Kit - #201477

Fontus Keypad Kit - #201498

⚠ INSTALLERS: PLEASE LEAVE THIS MANUAL WITH THE OWNER.

Doc # 400146

FONTUS - THINGS TO CONSIDER BEFORE INSTALLING

What is FONTUS?

FONTUS is a unique 485 device that can be used to send power and data over two conductor wire, or it can be used as a standalone 485 motor controller.

What can FONTUS do?

FONTUS accepts commands from a third-party control system, projector, or keypad and converts them into 485 commands. FONTUS can control any 485 motorized products available from Screen Innovations. FONTUS can accept the following common control inputs:

· 12v trigger (latched 7-12v)
· Contact Closure (relay, dry contact)
· IR (infrared)
· Keypad (with FONTUS keypad)

What products does FONTUS work with?

FONTUS can control virtually any 485 motorized product available from Screen Innovations. This includes:

· 3/5 Motorized
· Solo 2/Solo Pro 2
· Nano
· Zen
· Veil

How is FONTUS Powered?

FONTUS is an actively powered device and requires 7-28v DC power regardless of the application. Power can be supplied by Janus, the 24v "wall wart" power supply included in the FONTUS control kits, or with a third-party power supply. There is an important distinction for line voltage and low voltage applications of FONTUS:

· Line voltage: the 24v power supply powers FONTUS only, the screen motor is powered separately by the line voltage connection.

· Low voltage: 24v power supply powers FONTUS and the screen motor.

Fontus Pinouts

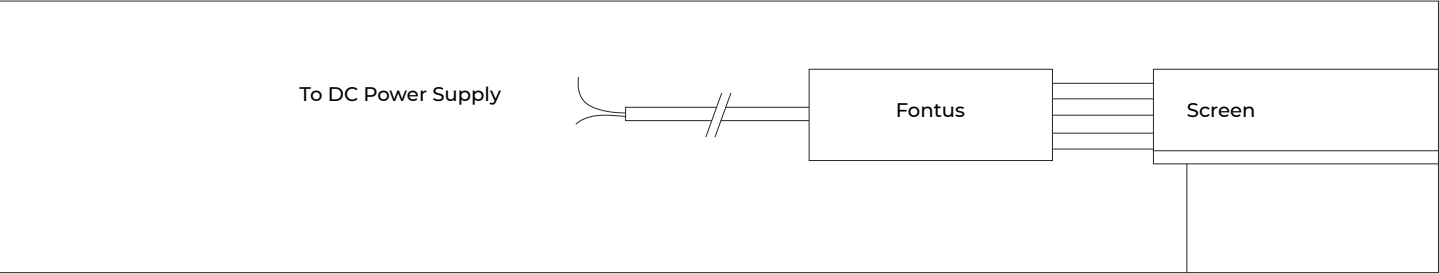485 screen output
Power supply output
(24v - 28v DC)
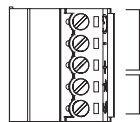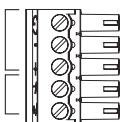
GPIO INPUTS
(12v Trigger, Dry Contact, IR)
Power supply input
(24v - 28v DC)

FONTUS - THINGS TO CONSIDER BEFORE INSTALLING

Inputs / Outputs
BCP - Inverted Header Side
485 - Header Side

Power Input
7v - 28v DC

Dimensions
0.86'' L x 2.42'' W
(22 mm x 62 mm)

Max. Wiring Distance
18 / 2 up to 150'
16 / 2 up to 60'

Features
· No Programming needed
· Plug-n-Play
· Full 2 way 485 Control (with additional codec)
· 12v trigger for use with projectors
· Dry Contacts for use with any control systems
· IR input for use with included IR Receiver & Remote (1 Motor Control Kit)
· Low Voltage Power Input - Fontus receives power via any 7v - 28v DC power
· Connectors are compatible with all 485 screens

FONTUS - WIRING OVERVIEW

To DC Power Supply   Fontus   Screen

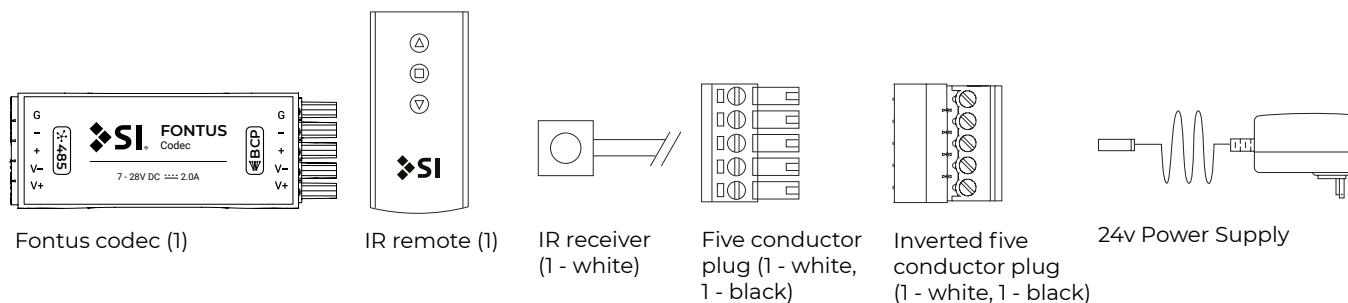# FONTUS - THINGS TO CONSIDER BEFORE INSTALLING

Mounting Fontus near your screen.

1. Fontus needs to be connected within 1 meter of the screen.
2. Optionally the Din Rail Kit can be used for mounting.

FONTUS - PACKAGE OPTIONS & IN THE BOX

1 Motor Control Kit - #201477 (In the box)

Fontus codec (1)

IR remote (1)

IR receiver (1 - white)

Five conductor plug (1 - white, 1 - black)

Inverted five conductor plug (1 - white, 1 - black)

24v Power Supply

All codecs come with both white and black color options to match your screen

Fontus Keypad Kit - #201498 (In the box)

Fontus codec (1)

IR remote (1)

IR receiver (1 - white)

Five conductor plug (1 - white, 1 - black)

Inverted five conductor plug (1 - white, 1 - black)

Fontus Keypad (1)

Keypad Dongle (1)

Duoccoup (1)

Two conductor plug (1-black)

24v Power Supply
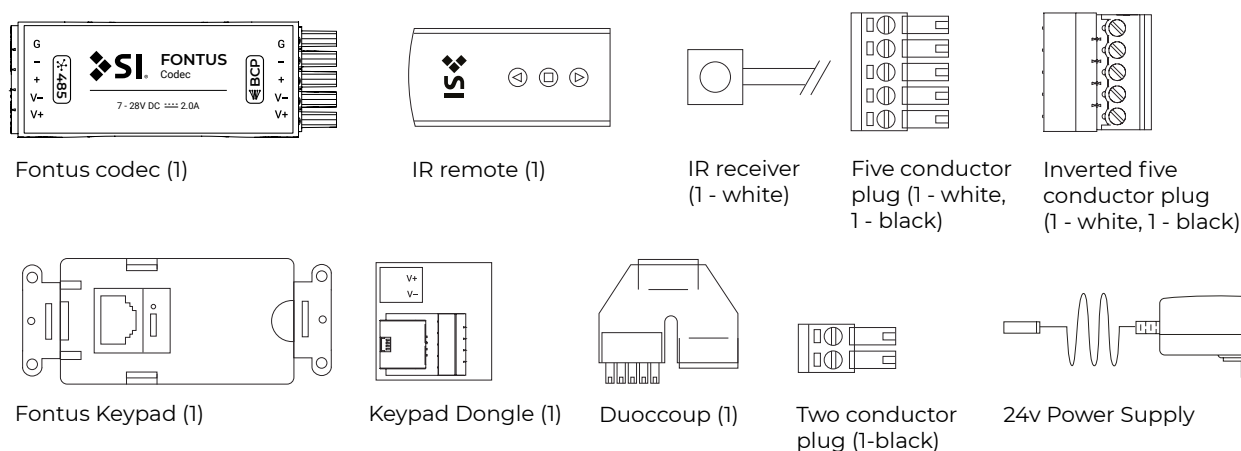
All codecs come with both white and black color options to match your screen

Changing your Fontus from White to Black

1. Remove the 485 Connector
2. Identify and locate SI Rip cord, hidden under the Terminal Block
3. Identify and locate small cut in the Heat Shrink near the bottom right corner under the terminal block
4. Position SI Rip cord in the small cut, while holding the codec firmly slowly pull the Rip cord toward the BCP side to start tearing the white heat shrink
5. You should now be able to peel the remaining white heat shrink exposing the black underneath.
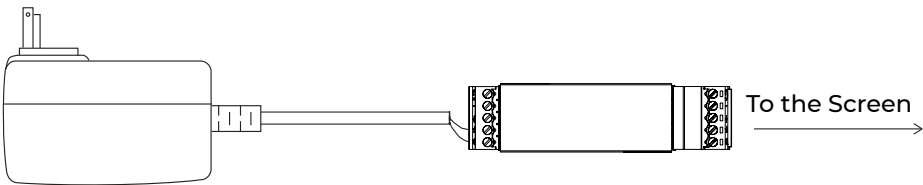

SI Rip cord

Header side (485)
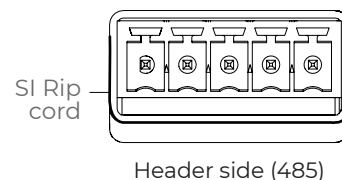
FONTUS - POWER OPTIONS

⚠ Never connect Line-Voltage to Fontus!

With Janus

To the Screen →
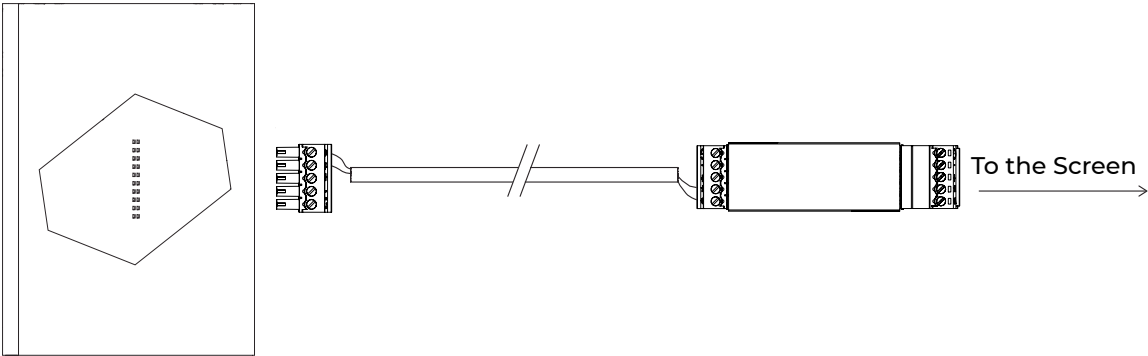
With Included Power Supply

To the Screen →

With Third-Party Power Supply

To the Screen →
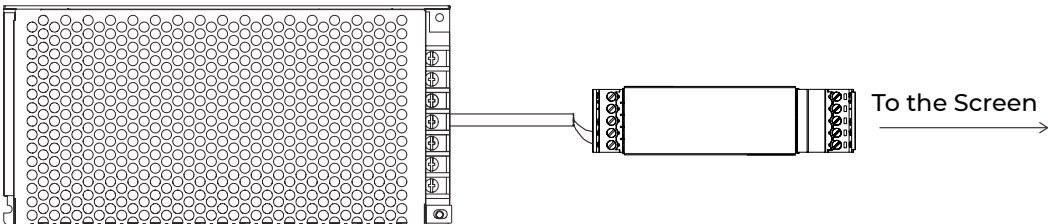
FONTUS - POWER OPTIONS

⚠ Always disconnect Fontus when programming a motor!

Line Voltage 12v Trigger

Janus or 24V Power Supply

to line voltage power

Screen

+ -

TS

to the Projector

12 V Trigger

V+	V-	+	-	G

7 - 28v DC to power Fontus

From Projector Sleeve 7 - 12v DC Ground (18AWG, 90' Max)

From Projector Tip 7 - 12v DC + Positive (18AWG, 90' Max)

Line Voltage Contact Closure (Relay/Dry contact)

Janus or 24V Power Supply

to line voltage power

Screen

to 3rd party control

Dry Contact

V+	V-	+	-	G

7 - 28v DC to power Fontus

UP

STOP
DOWN

FONTUS - POWER OPTIONS

⚠ Always disconnect Fontus when programming a motor!

Line Voltage IR

Janus or 24V Power Supply

to line voltage power

Screen

IR Receiver

IR Receiver

V+	V-	+	-	G

7 - 28v DC to power Fontus

(Green) Data (+)
(Yellow) Data (-)
(Black) Ground

Line Voltage Keypad

Janus or 24V Power Supply

Fontus Keypad Dongle

to line voltage power

Screen

CAT 5e/6

3rd Party Control System (optional)

Duoccoup

GPIO (INPUTS)
Power Supply Input

Common Ground
Dry Contact (Lower Limit)
Dry Contact (Upper Limit)
Ground -
7 ~ 28v DC +

8 - 1

Fontus Keypad (Back View)

*Keypad may be sold seperately.

Note: This keypad looks similar to the 485 and RTS versions SI offers, however it has a different wiring pinout and cannot be programmed. It is only a Dry Contact keypad.

Note: When using a Fontus keypad, IR and 12v Trigger control is not available!

FONTUS - POWER OPTIONS

⚠ Always disconnect Fontus when programming a motor!

Low Voltage 12v Trigger

Janus or 24V Power Supply
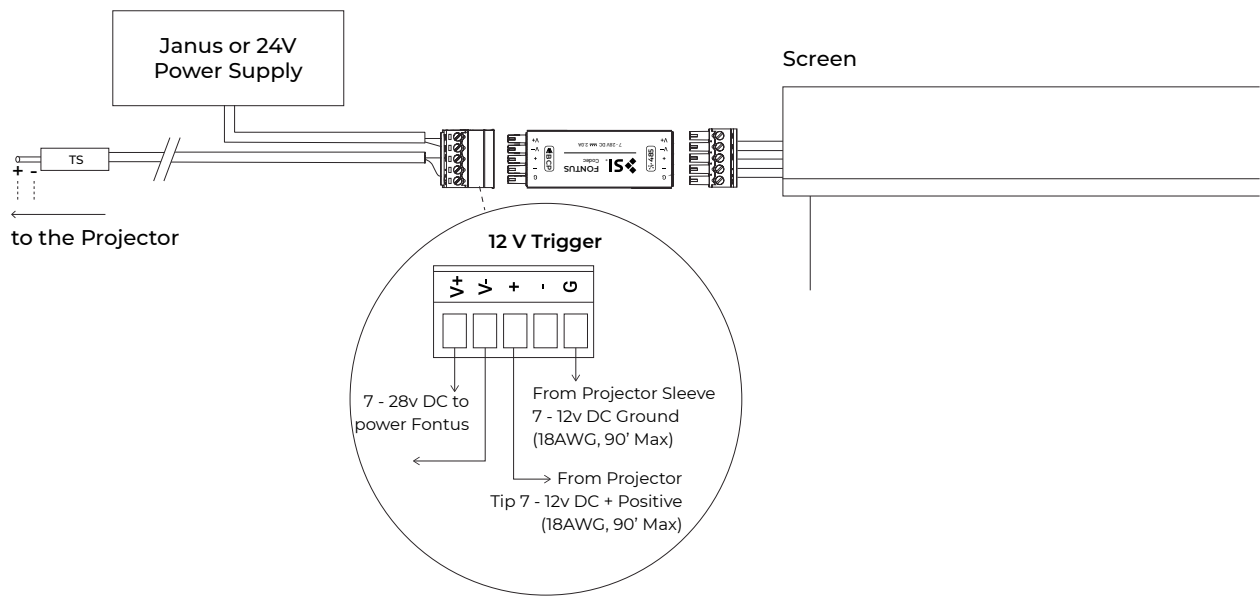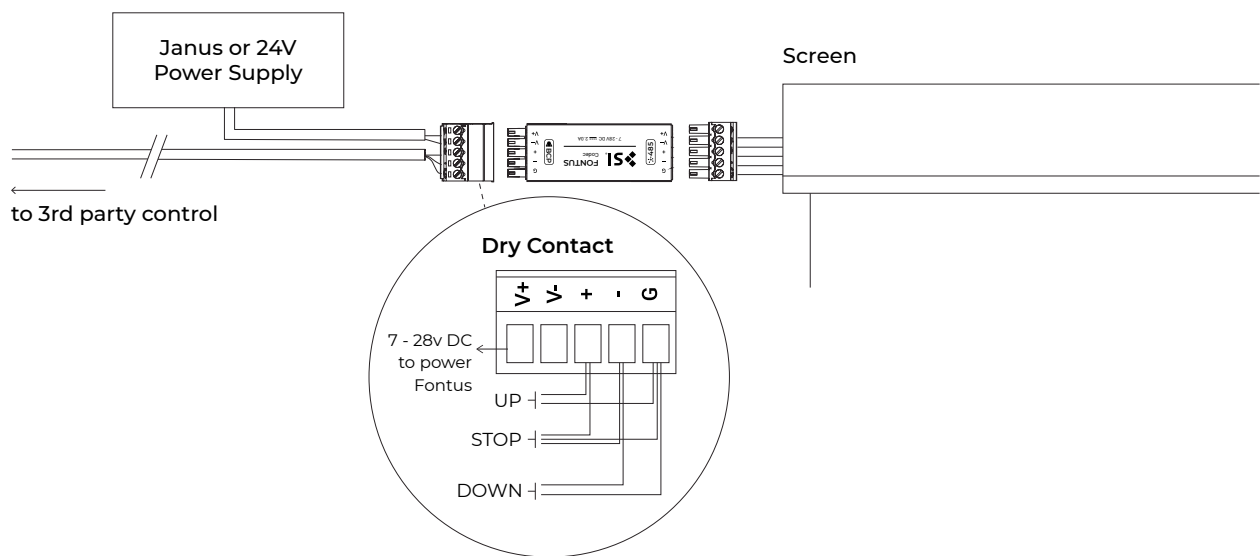
Screen

TS

+ -

to the Projector

12 V Trigger

V+ V- + - G

7 - 28v DC to power Fontus

From Projector Sleeve 7 - 12v DC Ground (18AWG, 90' Max)

From Projector Tip 7 - 12v DC + Positive (18AWG, 90' Max)

Low Voltage Contact Closure (Relay/Dry contact)

Janus or 24V Power Supply

Screen

to 3rd party control

Dry Contact

V+ V- + - G

7 - 28v DC to power Fontus

UP

STOP

DOWN

FONTUS - POWER OPTIONS

⚠ Always disconnect Fontus when programming a motor!

Low Voltage IR

Janus or 24V Power Supply

Screen

IR Receiver

IR Receiver

| V+ | V- | + | - | G |

7 - 28v DC to power Fontus

(Green) Data (+)
(Yellow) Data (-)
(Black) Ground

Low Voltage Keypad

Janus or 24V Power Supply

Fontus Keypad Dongle

Screen

CAT 5e/6

3rd Party Control System (optional)

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Fontus Keypad (Back View)

GPIO (INPUTS)

Common Ground
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Ground -
7 ~ 28v DC +

Power Supply Input
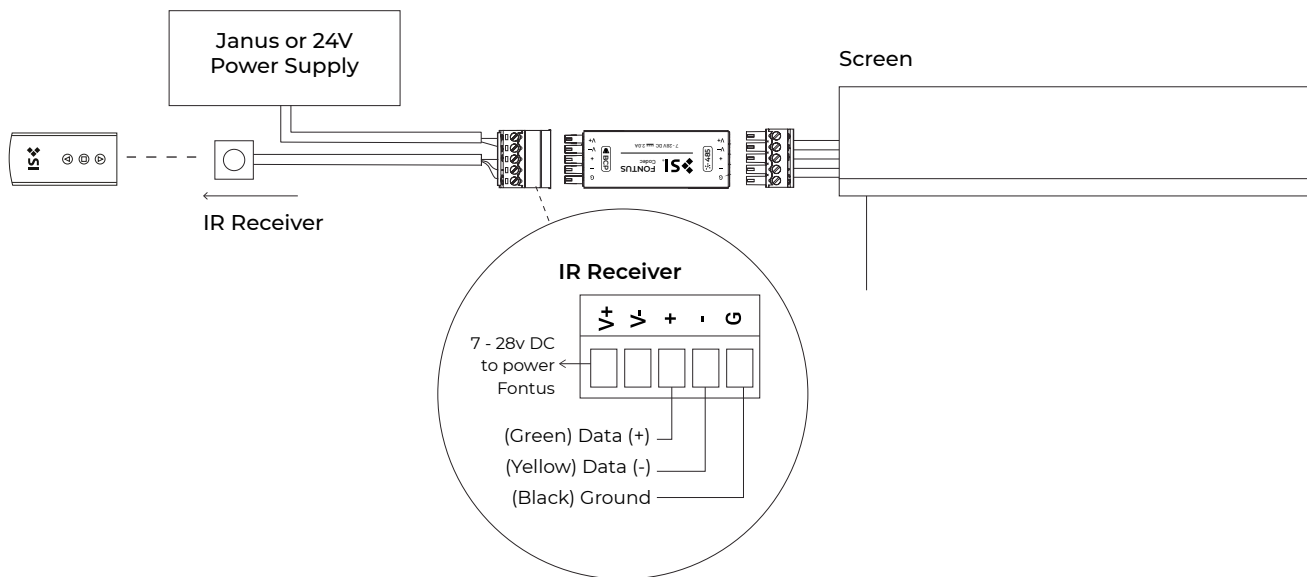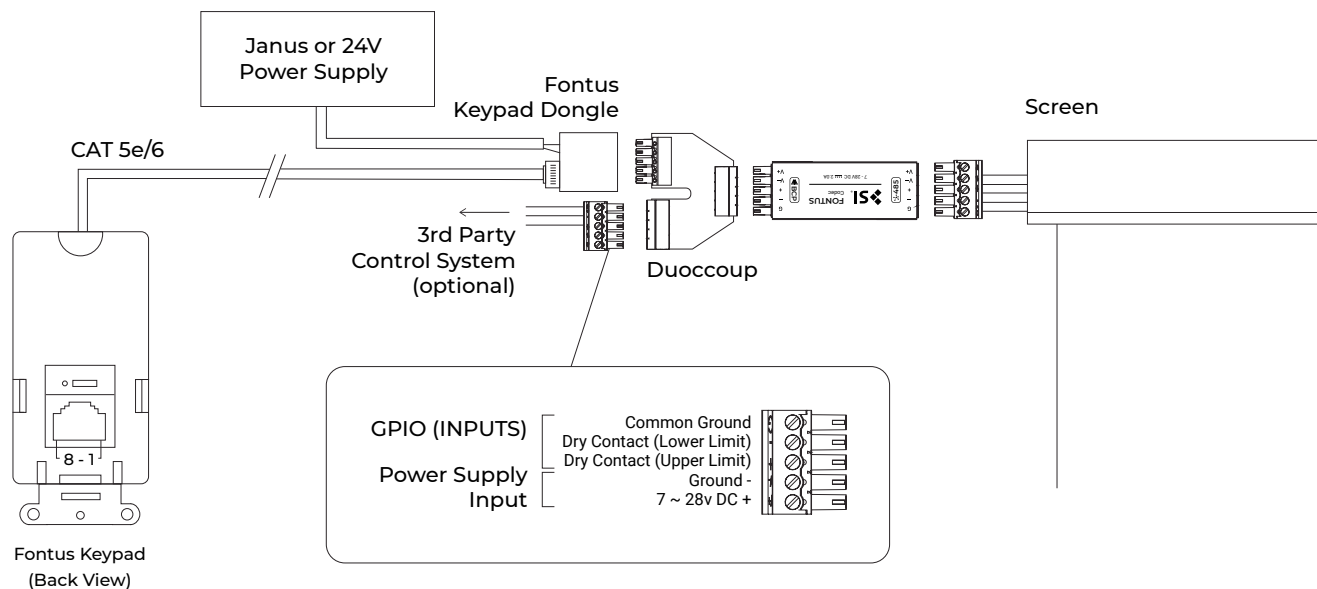
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Hexcodes

Third party IR universal control systems may be used to control the screen and commands may be learned from the SI IR Remote or using these hex codes:

Note:
Fontus can only respond to these IR codes. No serial connection can be made.

△
UP

0000 006c 0000 000c 0006 011b 0006 011b 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 011b 0006 08a4

☐
STOP

0000 006c 0000 000c 0006 011b 0006 011b 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 011b 0006 011b 0006 08a4

▽
DOWN

0000 006c 0000 000c 0006 011b 0006 011b 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 011b 0006 00bb 0006 08a4

Please use this QR Code to access more documents and Video Tutorials related to the product.

Thank you for purchasing an SI product. If you have any questions or need any assistance with your Fontus, we would love to help you.

Technical Support: 512.832.6939
Hours of Support: 7:30am - 5pm CST

screeninnovations.com

screensupport@screeninnovations.com
shadesupport@screeninnovations.com

Screen Innovations

9715-B Burnet Rd, Suite 400 Austin, TX 78758

512.832.6939

www.screeninnovations.com