

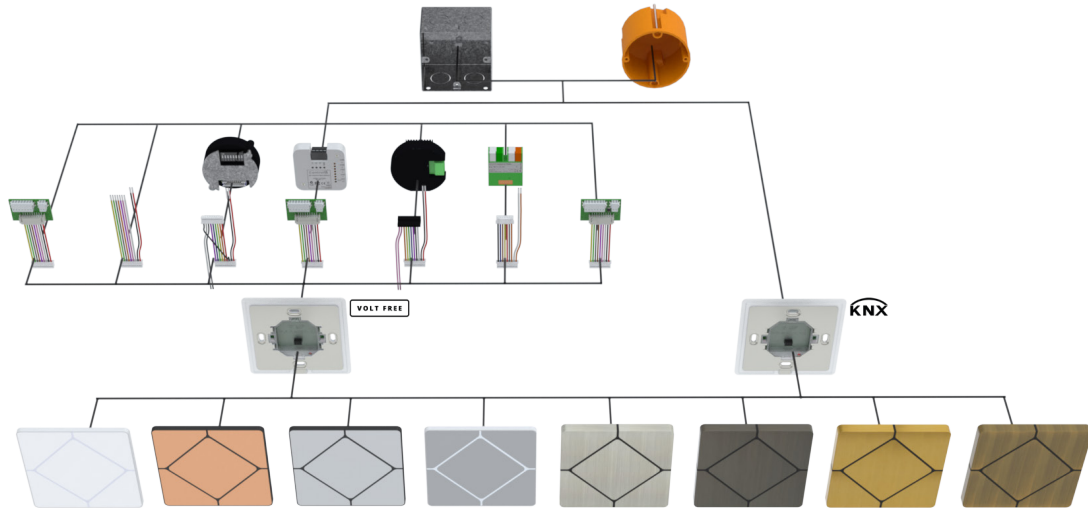
TAP RANGE - VOLT FREE (DRY CONTACT)

FARADITE

TAP5-XXXXX-XXX**COU-VOLF**FLY-XXXXX

ORDERING GUIDE

A fully installed TAP Volt Free keypad comprises of a front plate, a volt free coupler and a fly lead. The fly lead used will depend on the control system and device being used to connect the TAP Volt Free coupler to the control system. There are also universal male/female fly lead options making the TAP Volt Free range widely compatible. The diagram below shows the full TAP product range and details how the product SKU is constructed.



RANGE

TAP5-XXXXX-XXX**COU-VOLF**FLY-XXXXX

ALPHA O R E

ALPHA

ORE

FINISH

TAP5-XXXXX-XXX**COU-VOLF**FLY-XXXXX

ALPHA

O R E



BCO

Brushed
Copper



BSS

Brushed
Stainless
Steel



BNI

Brushed
Nickel



MWH

Matt
White



BBR

Brushed
Brass



BAB

Brushed
Antique
Brass



BNI

Brushed
Nickel



BJB

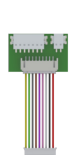
Brushed
Jordan
Bronze

FLY LEAD See further details on pages 4 / 5

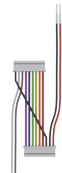
TAP5-XXXXX-XXX**COU-VOLF**FLY-XXXXX



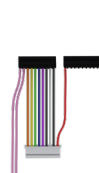
UNIV1



UNIV2



LUTR1



CRES1



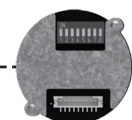
LOXO1



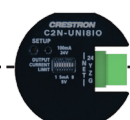
LOXO2

Includes 1-wire
temperature
sensor - for star
wired Loxone
systems only

NOT INCLUDED



Lutron
QSE-CI-WCI



Crestron
C2N-UN18IO



Loxone
Nano DI Tree

TAP5-XXXXX-XXX**COU-VOLF**FLY-XXXXX

VOLT FREE (DRY CONTACT)
COUPLER - OVERVIEW



The Volt Free (Dry Contact) coupler allows the connection of any TAP-5 front plates. It provides 5 volt free / dry contact outputs compatible with a number of control systems. The 6th output will not be used for the 5 gang keypads. The coupler also has a manually adjustable halo light.

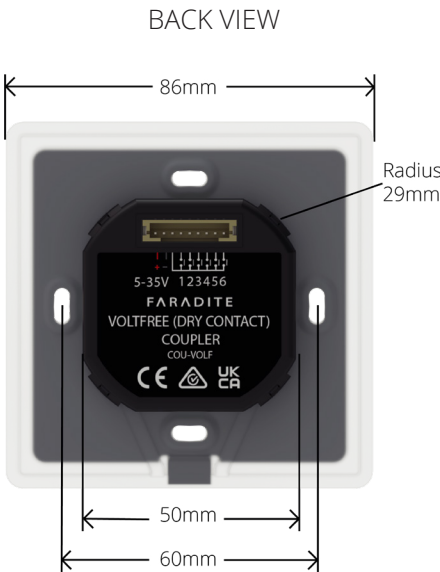
The coupler optionally confirms each press with an increase in brightness of the halo light.

Pre configured fly leads for popular control system interfaces can be specified. Alternatively there are also generic / universal fly lead options.

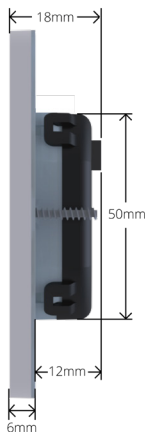
TECHNICAL DATA

Voltage	5V-35V DC
Power	See - Power Requirements
Operational Temp	Indoor only
IP rating	IP20
Fly lead connector	JST B9B-PH-SM4-TB
Solid state relay - max load current	80ma
Solid state relay - on resistance	16 OHMS
Solid state relay - off-state leakage current	1uA
Halo Light	4000k White light
Default state	Normally open
Backbox	UK or EU
Min pulse duration	80ms
Standards	EN 61000-6-1 EN 61000-6-3

DIMENSIONS



SIDE PROFILE



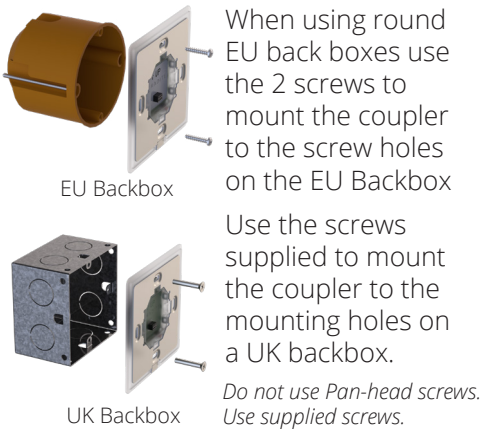
TECHNICAL CONNECTIONS

The coupler has 6 completely silent, solid state relays that close for the duration of the press. A minimum pulse duration of 80ms has been enforced to ensure reliable detection by the control system.



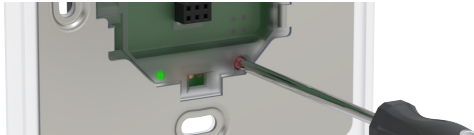
INSTALLATION

For optimum Halo Light aesthetic we advise mounting coupler using top and bottom screw holes.



Step by step installation guide:

- 1 - Use appropriate fly lead to connect coupler to the control system.
- 2 - Select the light level of the halo light by pressing and holding the button. Each press and hold will toggle between dimming the halo light up and down. Release at desired light level. Short press toggles on/off



- 3 - The feedback mode can be changed by a double press of the button. A LED shows the currently selected mode.

Light Blue - No Feedback
Red - Halo light pulse only

- 4 - Ensure correct orientation and press the front plate back on to the coupler with a moderately firm, evenly distributed press. The keypad will be disabled for the first 5 seconds after power up. Wait a further 5 seconds whilst the keypad calibrates itself before use.



TAP RANGE - VOLT FREE (DRY CONTACT)

FARADITE

TAP5-XXXXX-XXX**COU-VOLF**FLY-XXXXX

POWER REQUIREMENTS

The peak power requirement is 0.4W.

Feedback Mode	Peak Power
Light Blue - No Feedback	0.4W
Red - Halo light pulse only	0.4W (Default)

12V	24V	35V
33 mA	17 mA	11 mA
33 mA	17 mA	11 mA

POWER SUPPLY LOCATION / TYPE

The TAP range of keypads feature capacitive touch technology which require a strong GND reference to operate correctly. As a result the keypad can't be powered by a battery. We recommend using a good quality AC to DC power supply, to ensure a good GND reference, the power supply has to be located at least 1m away from the keypad location.

MOUNTING AND SAFETY PRECAUTIONS

- Installation to be undertaken by a qualified professional
- Do not connect directly to mains voltage
- Keep device away from water
- Do not use for safety critical applications

Directive 2014/30/EU (Electromagnetic Compatibility (EMC))

Directive 2012/19/EU (WEEE)

Directive 2011/65/EU (RoHS)

Harmonised standards: EN 61000-6-1 Immunity for residential, commercial and light-industrial environments

& EN 61000-6-3 Emission standard for residential, commercial and light-industrial environments

RoHS   

FARADITE

For further support & datasheets in other languages
please visit: faradite.com

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TAP5-XXXXX-XXX**COU-VOLF**FLY-XXXXX

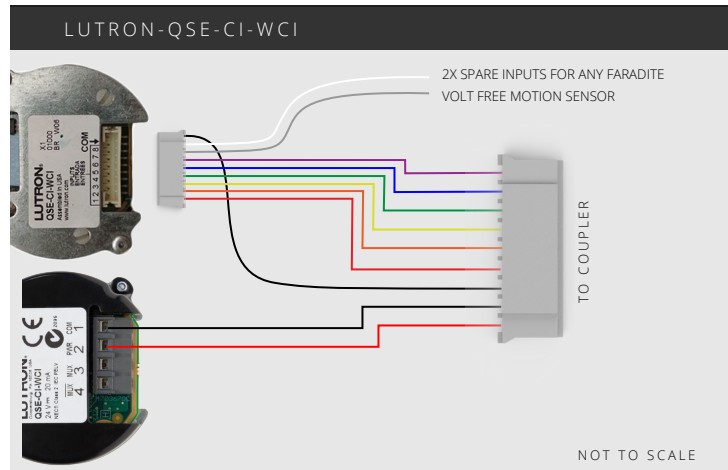
FARADITE

FLY LEADS - OVERVIEW

CONTROL SYSTEM SPECIFIC FLY LEADS

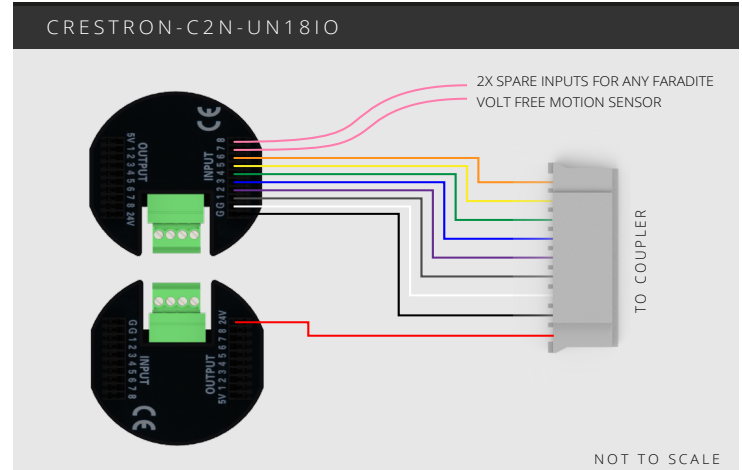
The generic fly leads allow connection into almost any low voltage control system that have dry contact / volt free / digital inputs, but for convenience and speed of wiring there is also a selection of fly leads that are made for specific control system modules.

FLY-LUTR1



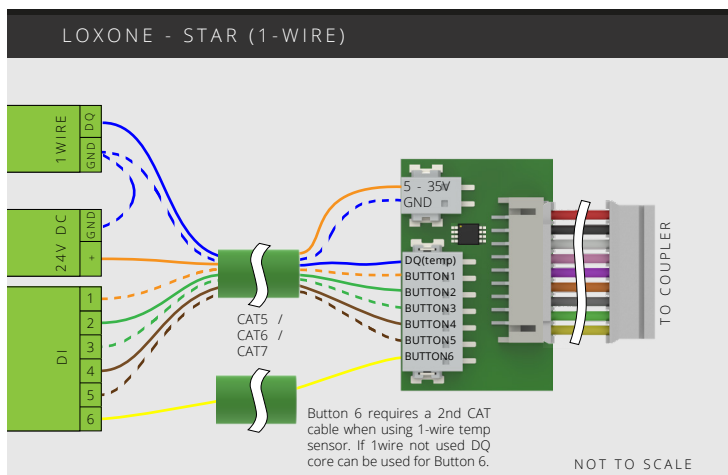
The Lutron QSE-CI-WCI allows for up to 8 inputs. Use the Faradite FLY-LUTR1 to connect the TAP Coupler Volt Free to the Lutron QSE-CI-WCI. Inputs 7 and 8 can be used for additional sensors such as the Faradite Motion Sensor 360 Volt Free.

FLY-CRES1



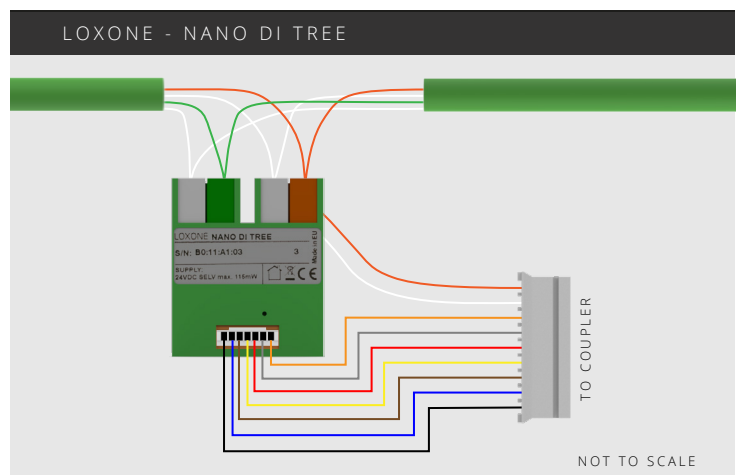
The Crestron C2N-UN18IO allows for up to 8 inputs to be connected. The supplied Faradite fly lead uses inputs 1 - 6 with inputs 7 and 8 spare for external sensors such as the Motion Sensor 360 - Volt Free. Please note: This module does not support fast double click functions, only use single click functions.

FLY-LOX02



For Loxone systems that have been star wired the FLY-LOX02 allows direct connection to a CAT cable. It includes a 1-wire temperature sensor. It can be used for 1-6 button keypad.

FLY-LOX01



Connecting the TAP Volt Free Coupler to a Loxone Tree bus is simple using the Nano DI Tree. Power the Coupler by connecting the loose orange and white fly leads to the orange and white terminal block.

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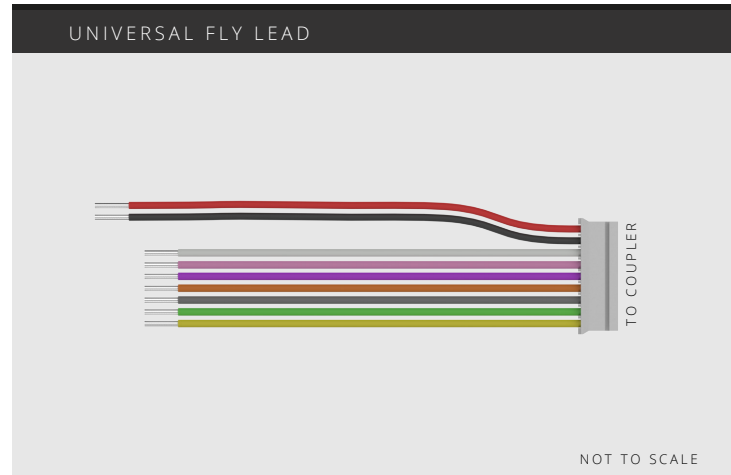
FARADITE

TAP5-XXXXX-XXX**COU-VOLF**FLY-XXXXX

GENERIC FLY LEADS

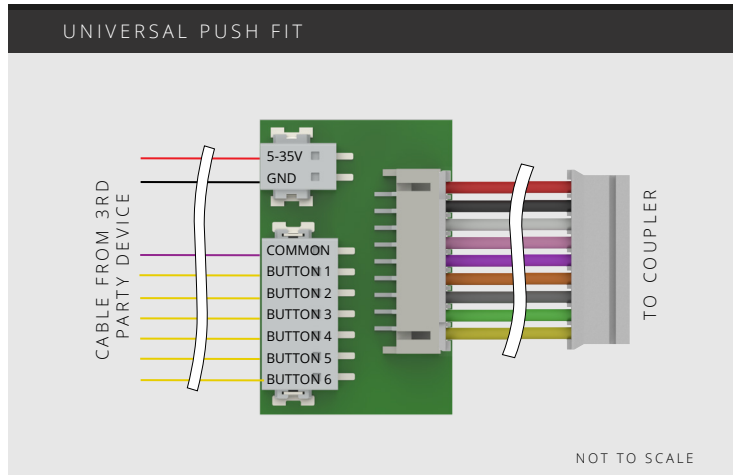
The generic fly leads allow connection into almost any low voltage control system that has dry contact / volt free / digital inputs.

FLY-UNIV1



The FLY-UNIV1 connects in to the back of the Faradite TAP Coupler Volt Free and provides loose fly leads. The fly leads can be connected to any suitable input module.

FLY-UNIV2



For systems that require a female terminal the FLY-UNIV2 allows the connections of fly leads from any 3rd party device. Supports keypads with 1 - 6 buttons..