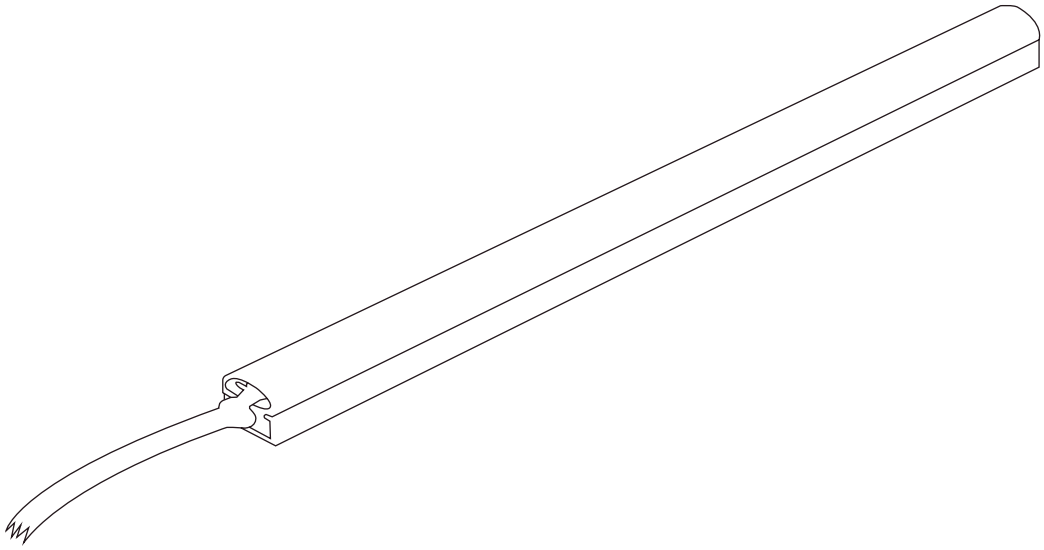
future automation

TAPESWITCH INTEGRATION



DESIGN GUIDE

ISSUE **001**

GUIDE CONTENTS

INTRODUCTION

The tape switch is a third-party safety device that stops a mechanism if it makes contact with an obstruction. When the edge hits an object, the housing deforms, causing the internal ribbon switch contacts to close and send a stop signal to the mechanism.

Tape switches can be integrated into Future Automation mechanisms and provide an important additional safety feature.

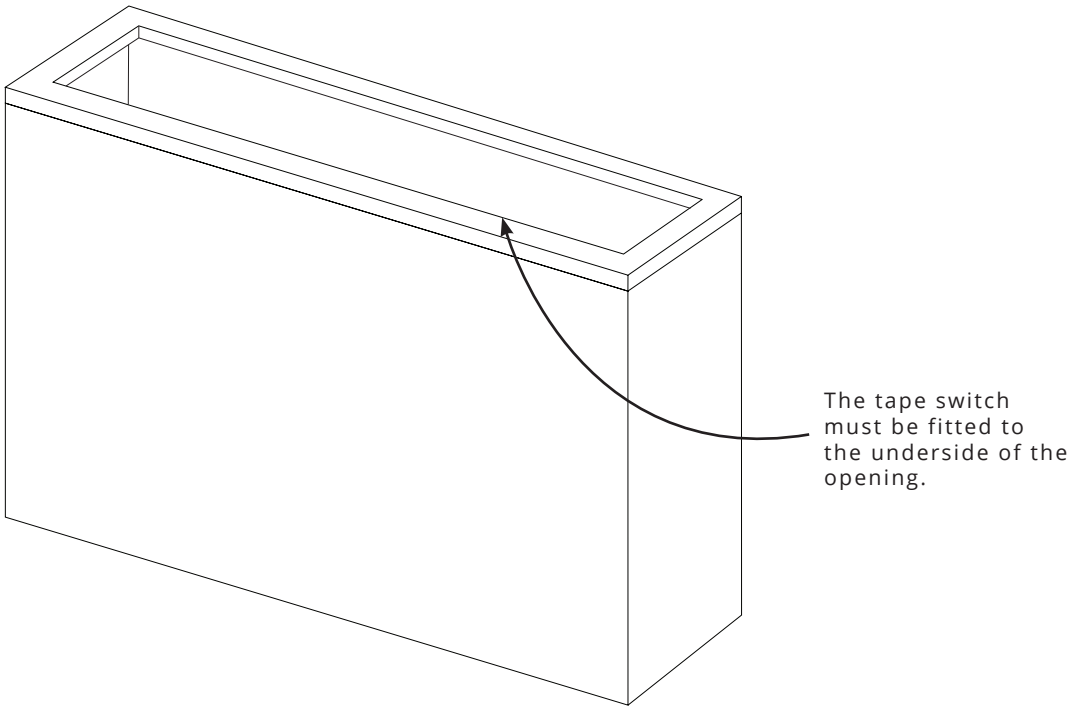
When activated, the tape switch will stop the Future Automation mechanism; it does not include a back-off function.

These instructions explain how to integrate a tape switch safely. However, it is the responsibility of the cabinet maker and installer to ensure the tape switch is suitable for the application and operates correctly once installed.

INFORMATION TAKE FROM TAPE SWITCHES WEBSITE

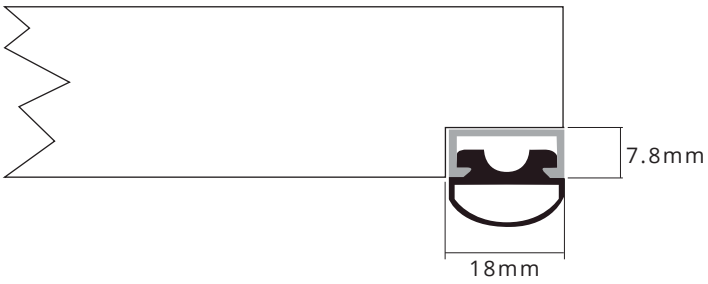
INTEGRATION LOCATION

The tape switch can be installed on the underside of the opening, either along the front edge only or around the front three edges. It is the cabinet maker's responsibility to decide which option is most suitable.



Under side of cabinet

A routed grove is needed to allow the tape switch to sit flush . In some cases where the a deep recess may be required to allow sufficient room for switch to be activated.



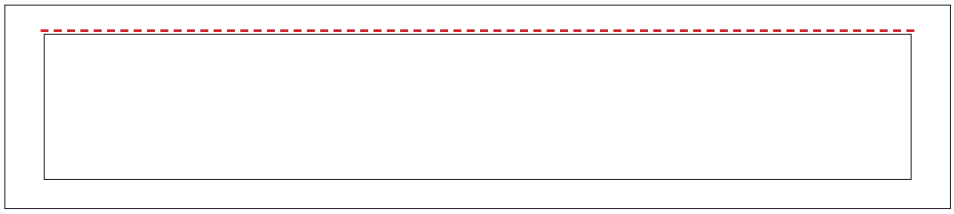
INTEGRATION OPTIONS

TS6 / TS16 (1 LENGTH)

ORDER CODE:

TS6 / TS16 / ****MM

Front Edge

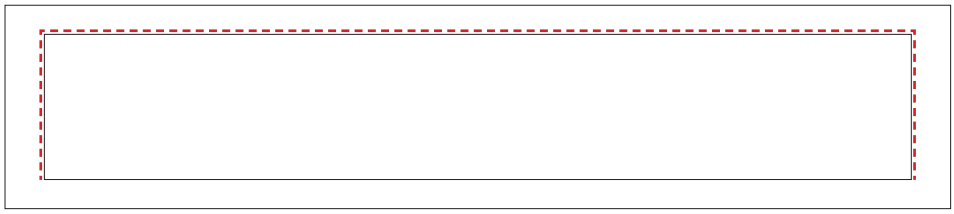


TS6/TS16 (3 SIDES - U SHAPE)

ORDER CODE:

TS6/TS16 / ****MM X ****MM X ****MM

Front Edge

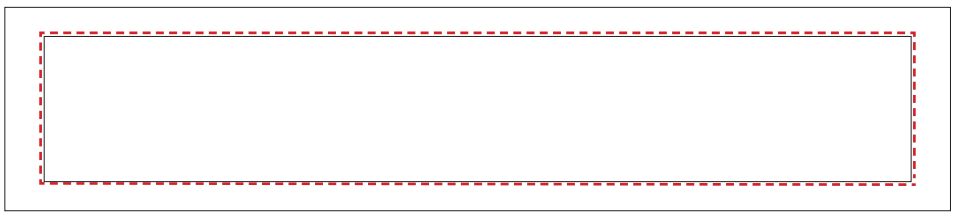


TS6/ TS16 (4 SIDES - RECTANGLE/SQUARE SHAPE)

ORDER CODE:

TS6/TS16 / ****MM X ****MM X ****MM X ****MM

Front Edge



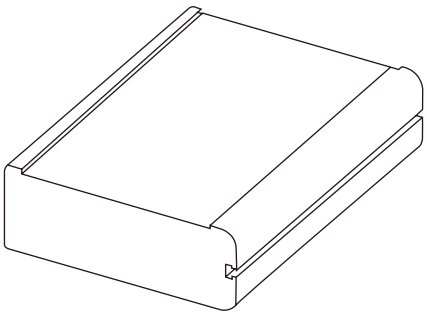
INTEGRATION CONNECTION

Connects to the emergency stop. A relay box is required to reverse the polarity so the unit stops when the tape switch is pressed. Without the relay box, the mechanism will continue to run when the tape switch is activated.

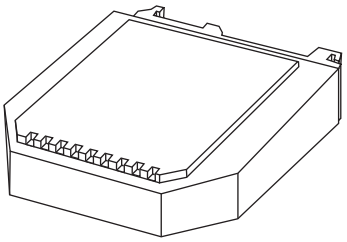
Important: The switch is connected to CC5 rather than the emergency stop, as the control boards are hard-wired to physically disable the A/C outputs when the emergency stop is activated.

WARNING: ALWAYS ISOLATE THE MAINS POWER BEFORE WORKING ON CONTROL BOX.

1 Make sure power is disconnected.



2 Connect Tapeswitch to relay box (PSSZ-2)



3 Connect the relay box to the control box via the emergency stop. Ensure all wiring is routed neatly and kept out of the way using trunking.

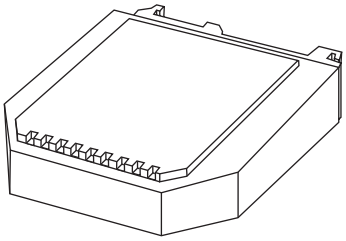
4 Test all operations.

PART ORDERING

These can be order through Future Automations during mechanism ordering or after. To do so please provide TS number required and length/s and make sure to include relay box in your order. See below for details.

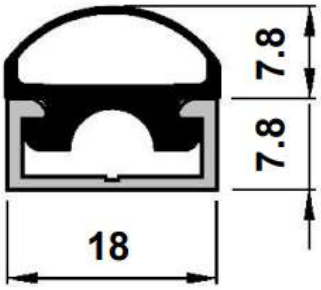
Relay Box
ORDER CODE:

PSSZ-2

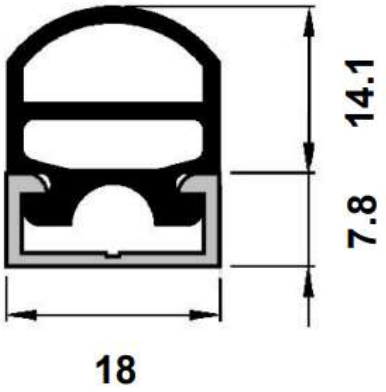


Tape Switch

TS6



TS16



TS6 / TS16 (1 LENGTH)

ORDER CODE:

TS6 / TS16 / ****MM

TS6/TS16 (3 SIDES - U SHAPE)

ORDER CODE:

TS6/TS16 / ****MM X ****MM X ****MM

TS6/ TS16 (4 SIDES - RECTANGLE/SQUARE SHAPE)

ORDER CODE:

TS6/TS16 / ****MM X ****MM X ****MM X ****MM

EUROPEAN OFFICE

Address:
Unit 6-8
Brunel Road
Bedford
Bedfordshire
MK41 9TG

Phone: +44 (0) 1438 833577
Email: info@futureautomation.co.uk

Office Hours:
Mon - Fri 8:00 to 17:30 GMT
Saturday & Sunday - Closed

NORTH AMERICAN OFFICE

Address:
Enterprise Park
127 Venture Drive
Dover
NH
03820

Phone: +1 (603) 742 9181
Email: info@futureautomation.net

Office Hours:
Mon - Fri 7:00 to 17:00 EST
Saturday & Sunday - Closed