

EM24EX SELF-RESETTING EMERGENCY EXIT SYSTEM

For 12VDC fail-safe locking applications where green mechanical breakglass cannot be used due to constant abuse.

T N° 13035

SECURED BY DESIGN, NEW HOMES 2014:

24.11 Break glass emergency door exit release devices (often green in colour) on communal external doors that give access into the building are not permitted due to constant abuse. Instead, vandal resistant stainless steel self-resetting emergency exit systems are to be installed. The installation and system type must be in full compliance and achieve final 'sign-off' by local Building Control.



EMEX-FL

AUTOMATICALLY
SELF-RESETS



EM24EX + 1FL

EM24EX SELF-RESETTING EMERGENCY EXIT SYSTEM

For 12VDC fail-safe locking applications where green mechanical breakglass cannot be used due to constant abuse.

T N° 13035-1

IMPORTANT:

It is not just two buttons arranged vertically.

Correct installation is a matter of life and death and must be verified.

Only top quality components have been used. This is a H&S device, there is no room for compromise. The price reflects this and we will not install an inferior product.

A detailed commissioning sheet is required for each door and it must be signed and clearly identify the installer. If you do not receive a satisfactory commissioning sign-off, do not accept the installation.

This is a safety device to guarantee escape in the event of an emergency.



EM24EX + 1FL

FLUSH

Flange: 195mmH x 145mmW
Backbox: 168mmH x 120mmW x 80mmD



EM24EX + 1SL

SURFACE

158mmH x 108mmW x 73mmD



EM24EX + 1HS

HOODED SURFACE

150mmH x 108mmW x 73mmD (bottom)
x 100mmD (top)

WARNING! A PTM/PTB* DOUBLE POLE EXIT BUTTON ONLY IS NOT AN ACCEPTABLE REPLACEMENT FOR A GREEN BREAKGLASS.

T N° 13035-2

Clause 2.17 of Part M (Access) of the Building Regulations, Section J: “the operation of switches, outlets and controls does not require the simultaneous use of both hands, except where this mode of operation is necessary for safety reasons.”

You cannot have a system where the only emergency exiting procedure requires that the person needs to hold in a button, and at the same time pull/push the door because some people (elderly, physically impaired, children etc) will not be capable of doing this.

Also, if the distance from the exit buttons to the door makes this physically impossible (too far apart) to press in the button and push/pull the door simultaneously, the installation is obviously flawed and unsafe for everyone.

The emergency exit button **MUST** when pressed in the normal way ie pressed and immediately released also latch the door unlocked for a period of minimum 3 minutes. Each time the emergency exit button is pressed and immediately released it must “hold the door unlocked” for a minimum period of 3 minutes.

*PTM = Push to make momentary contacts = Convenience feature only.

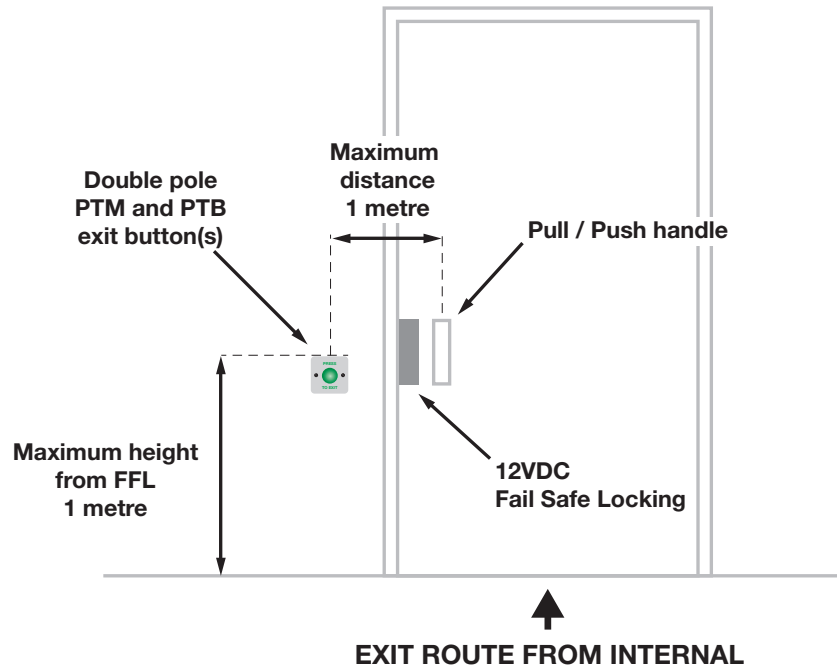
PTB = Push to break momentary contacts = Safety feature.



IMPORTANT SAFETY WARNING

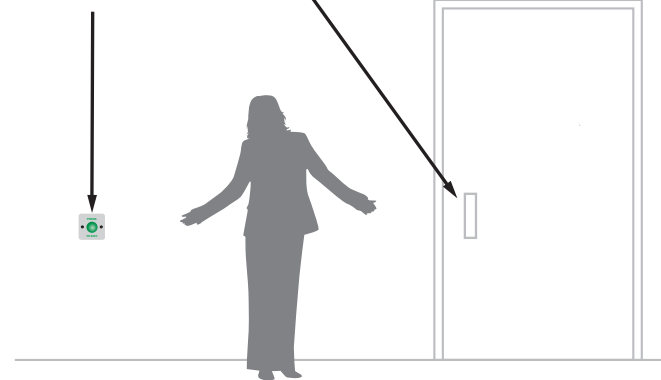
The mechanical Push to Break (PTB) safety features on the exit button(s) **ONLY WORK** if the door can be pulled / pushed open whilst holding the button pressed in. See safety numbers 1 (2C), 3 (3B).

T N° 13035-3



HEALTH & SAFETY WARNING

NOT SAFE !



If a person cannot reach the exit button AND the door handle at the same time, the safety PTB poles of the button are USELESS. The installation is unsafe and dangerous.

**THINK SAFETY,
THINK FIRE, THINK
EMERGENCY EXIT.
LIVES DEPEND
ON A CORRECT
INSTALLATION.**

**REPORT
NON-COMPLIANT
INSTALLATIONS
IMMEDIATELY.
LIVES DEPEND
ON IT!**

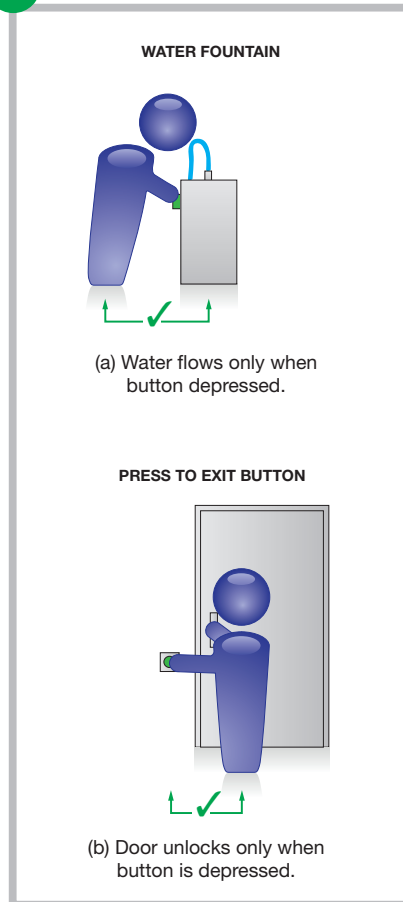
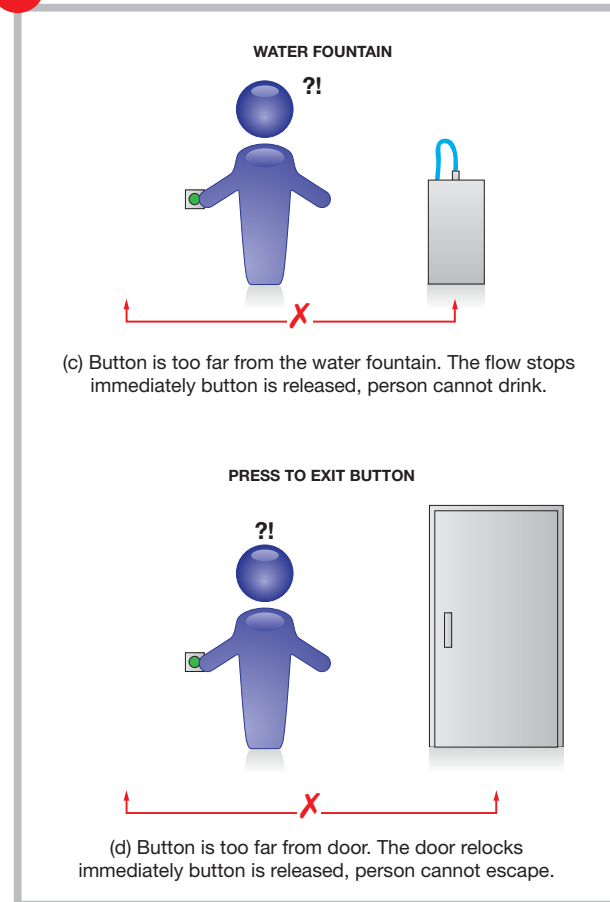
**ALWAYS CHECK THAT WHEN A BUTTON IS PUSHED AND HELD DOWN THE DOOR STAYS UNLOCKED AND DOES NOT RE-LOCK.
ALL INSTALLATIONS MUST COMPLY WITH BUILDING CONTROL REGULATIONS.**

T N° 13035-4

The PTB (Push to Break) contacts on the button break the 12VDC Fail Safe lock power circuit but only when the button is pressed in.

The instant the button is released, the 12VDC Fail Safe lock is immediately re-powered and the door immediately locks.

If the person cannot both press the button in and push or pull the door open at the same time, the installation is dangerous.

1 CORRECT**2 FAULTY & DANGEROUS!**

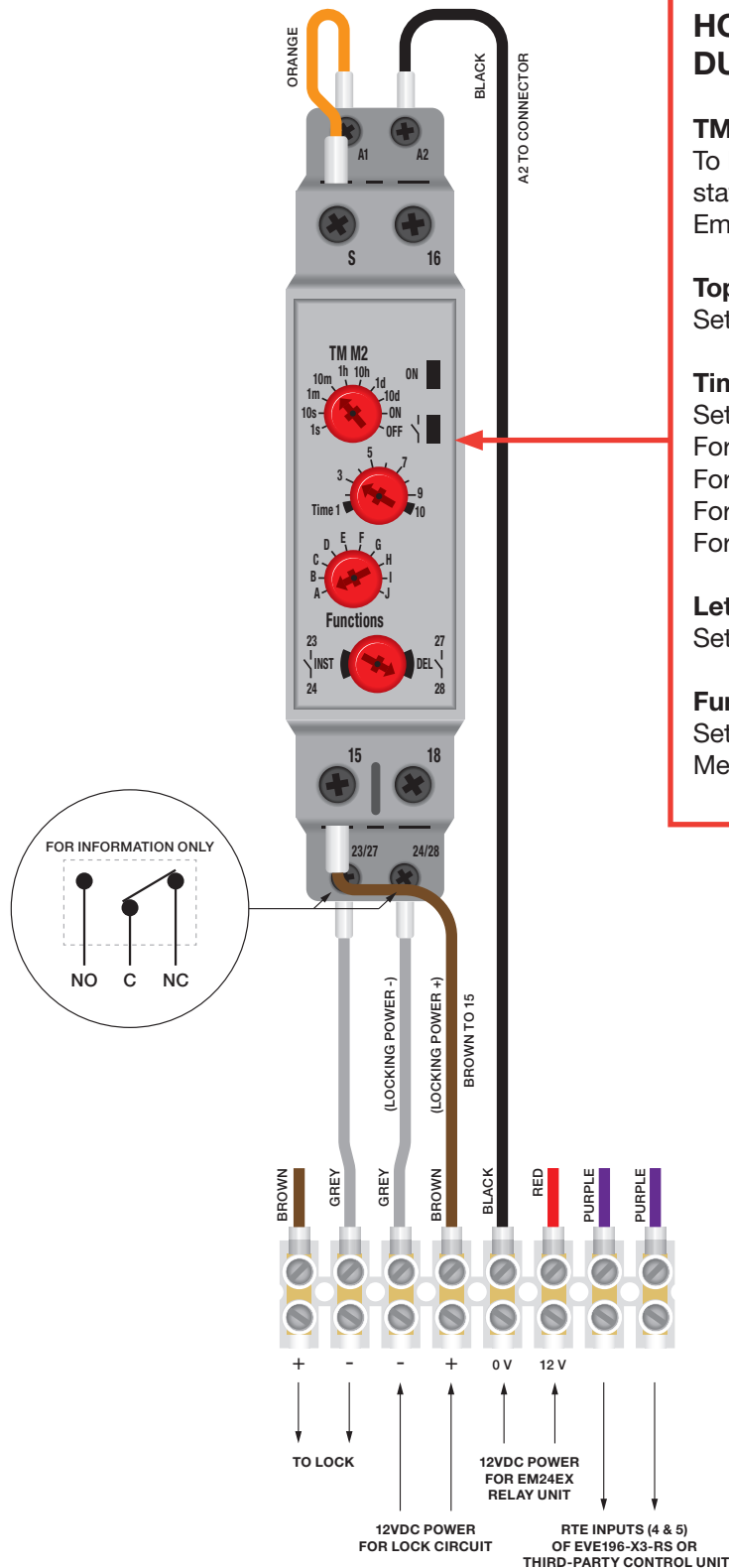
WARNING: Must be fitted within 1 metre maximum distance of the door exit pull/push handle at a maximum height of 1 metre from FFL. Position carefully so that door does not open OVER the exit button(s).

EM24EX SELF-RESETTING EMERGENCY EXIT SYSTEM

CABLING CONFIGURATION

T N° 13037

EM24EX (12VDC POWERED RELAY)



HOLD-UNLOCKED TIME DURATION SETTINGS

TM M2 (top) dial

To latch open (hold unlocked) electric locking (change status of locking from locked to unlocked) when Emergency Button is momentarily pressed and released.

Top dial

Set arrow to always point to 10M

Time dial

Set arrow to point as follows to hold unlocked

- For 1 min = 1
- For 2 mins = 2
- For 3 mins = 3
- For 5 mins = 5

Letters dial

Set arrow to always point to A

Function dial

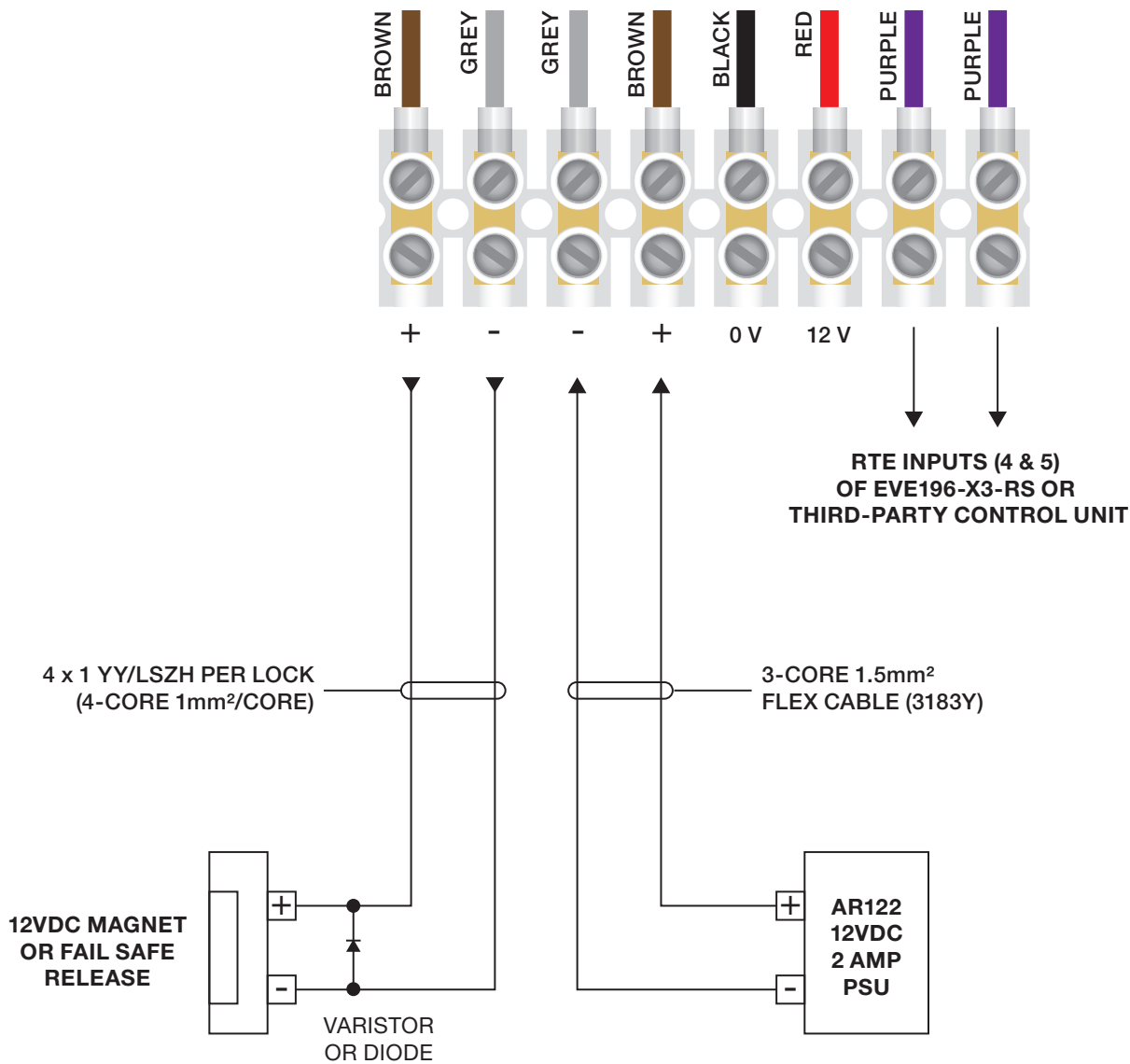
Set arrow to always point to 28

Means relays 15-18 & 23/27-24/28 mimic each other.

EM24EX SELF-RESETTING EMERGENCY EXIT SYSTEM

CABLING CONFIGURATION

T N° 13037-3

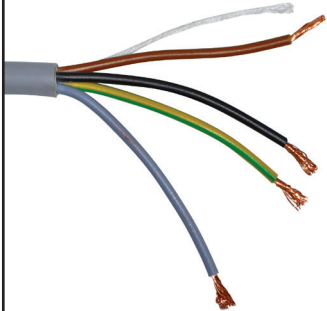


EM24EX SELF-RESETTING EMERGENCY EXIT SYSTEM

EM24EX CABLING SPECIFICATIONS

LOCKING CIRCUIT CABLE 4 x 1 YY/LSZH (3184B LSZH)

Q13026



Maximum distance from locking to power supply location:
50 metres for 1 amp lock
30 metres for 2 amp lock

CABLE REFERENCE:
4 x 1 YY/LSZH
PER LOCK

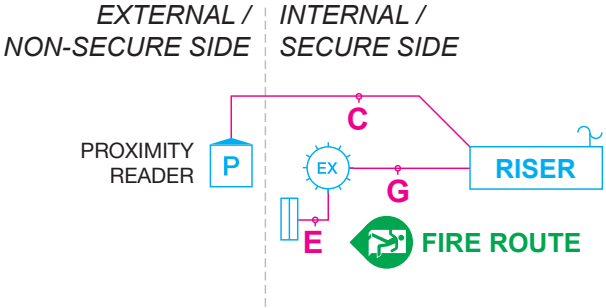
Fail safe locking relies on the locking receiving the correct voltage and current. Only industry reference 4 x 1 YY/LSZH cabling (or Fire Protected equivalent, if applicable) is to be used. Alarm, data or communications cabling; for example; CAT5E, CW1308 is unacceptable.

Conductors:	Flexible copper, class 5.
Core identification:	4 core: brown, grey, black, green/yellow
Insulation:	LSZH
Sheath/Jacket:	LSZH
Colour:	Grey
Voltage:	300/500V
Operating temperature:	-5°C / + 70°C
Minimum bending radius:	6 x overall diameter
Standards:	BS EN 50525-3-11, EN 61034-2, EN 60332-1-2.

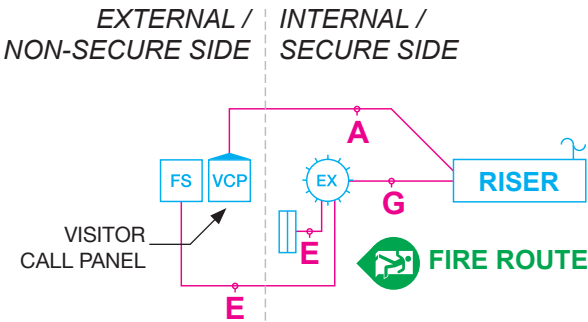
Core size sq.mm	No of cores	Radial thickness of insulation mm	Nominal overall diameter mm	Weight kg/km
1	4	0.6	7.9	99

T: 01322-441165 Product ref: 3184B-Grey Part number: 45574 www.batt.co.uk

T N° 070/4 with SBD compliant EM24EX system



T N° 070/2 with SBD compliant EM24EX system



INSTALLATION COMPONENTS

	12VDC fail safe electric release or electro-magnet (as per advice or pre-installed by door supplier for door type, designation and usage profile).	L08
	Fireman switch.	L16
	EM24EX stainless steel normal exit + self-resetting emergency exit system (fitted within 1 metre maximum distance of the relevant door exit pull/push handle at a maximum height of 1 metre from FFL). All locking must be 12VDC fail safe.	L41

CABLING

- A** Class E (CAT6) U/UTP x 4no + Earth 1.5mm² (6491X)
- C** Class E (CAT6) U/UTP + Earth 1.5mm² (6491X)
- E** Lock circuit cable ref. 4 x 1 YY/LSZH per lock (4-core, 1mm²/core)
- G** Lock circuit cable ref. 4 x 1 YY/LSZH per lock (4-core, 1mm²/core) + Class E (CAT6) U/UTP x 1no