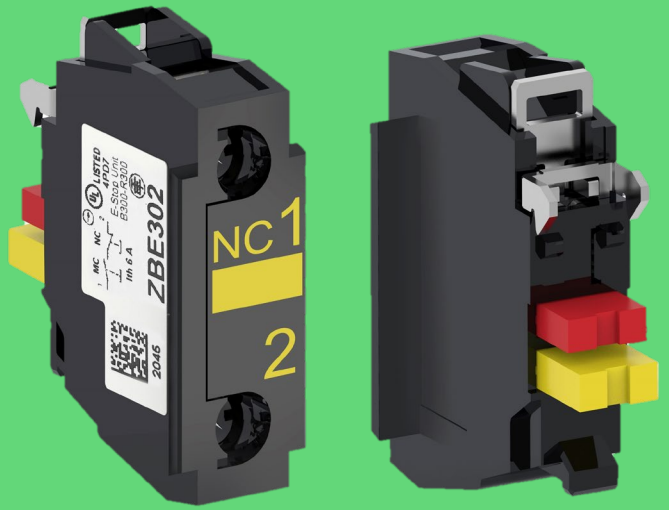
Harmony Monitoring Contact

Offer presentation



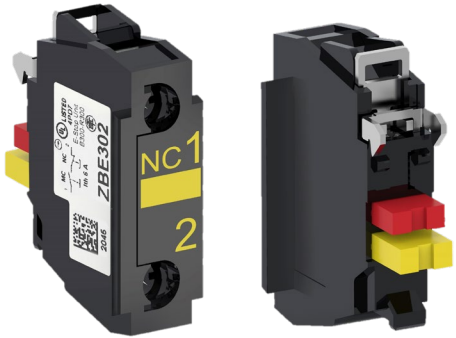
Life Is On Schneider Electric

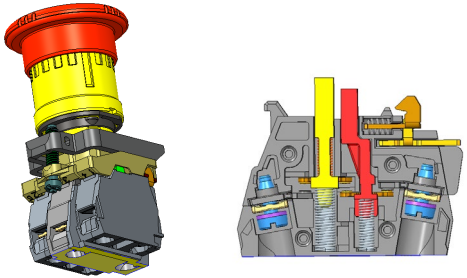
Monitoring contact for Emergency Stop

Despite the robustness of Harmony pushbutton, the installation process could introduce safety risk on the emergency stop pushbutton operation.

A monitoring contact stops the machine when the head is pushed or when the contact is detached from the head.

Our monitoring contact is a ‘Normally Closed’ (NC) contact block with auto-monitoring function included.





Targeted applications?

For all machines or processes using the Emergency Stop function.

Features

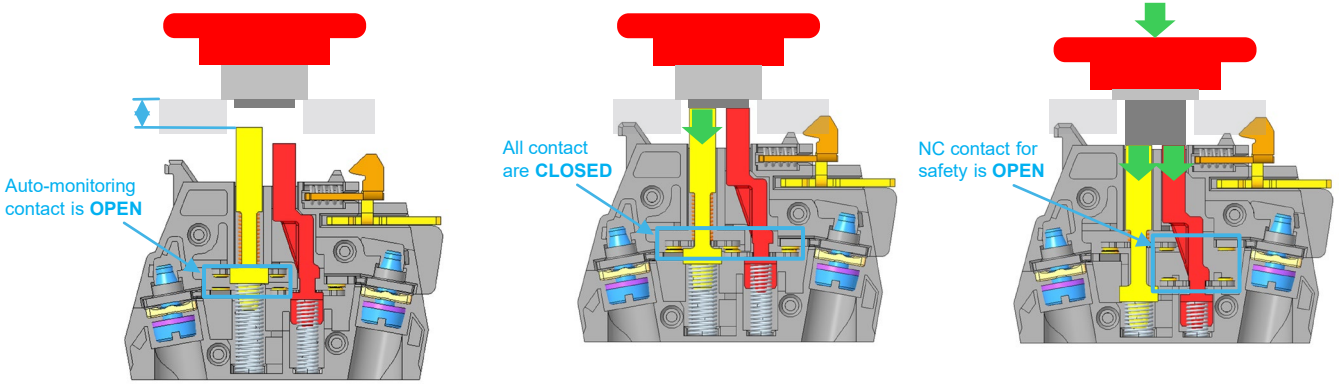
Positive opening NC contact for safety circuit integration

Integrated NO monitoring contact for detection of pushbutton's head

Designed to block/hold additional contact blocks

Homogeneous form factor. Replace existing NC contact directly without extra cabling

How it works?



Condition	Contact block detached from head	Contact block attached to head	Emergency stop is pressed
Monitoring Contact (Yellow)	Open	Close	Close
NC Contact (Red)	Close	Close	Open
Electrical circuit	**Open**	**Close**	**Open**

Benefits

- Install as a standard NC contact block
- Integrated monitoring function without extra cabling
- Tested with Harmony XPS safety relay
- Compatible with plastic and metal emergency stop pushbutton

Complete offer references

Reference	Image	Description
ZBE302		Monitoring contact block, 1 NC with monitoring contact
XB5AS8446		Plastic emergency stop pushbutton 1NC with monitoring contact
XB5AS84462		Plastic emergency stop pushbutton 1NC + 1NC with monitoring contact
XB4BS8446		Metal emergency stop pushbutton 1NC with monitoring contact
XB4BS84462		Metal emergency stop pushbutton 1NC + 1NC with monitoring contact
XALK1786		Plastic emergency stop control station 1NC + 1NC with monitoring contact
XALK1786H7		Plastic emergency stop control station 1NC + 1NC with monitoring contact, UL/CSA

Monitoring contact

Why choose the new monitoring contact block?

1 What's the purpose?

- It creates an integrated monitoring function within a compact size.
- Two functions combined into one NC single contact block.

2 What requirements need to be met?

- You can easily replace existing Normally Closed contacts on your machine with the ZBE302 contact block.
- Compatible with Harmony XPS safety solutions.
- With its compact size it's compatible with most installed bases without modifications and no extra cabling.

3 What's the benefit?

- Avoid operational maintenance errors, whereby they may forget to fix the contact block to the base.
- The combination of a contact block and monitoring function reduces the risk for human error.

4 Do I need to add another NC contact block to the monitoring contact?

- The monitoring contact can replace a standard NC contact block.
- The monitoring function includes a normal NC contact.
- When the Emergency Stop head is fixed to the contact block via the fixing collar, it's acts like an NC contact block function for the electric schematic.

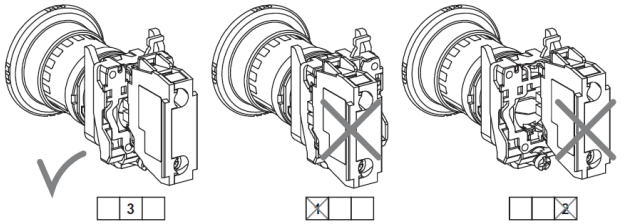
Technical information

Mounting positions

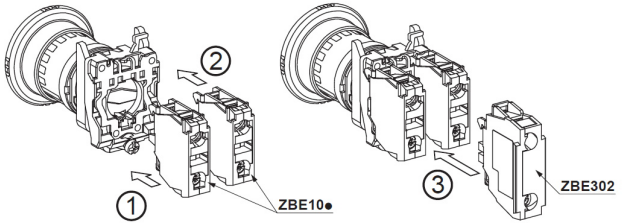
ZBE302 monitoring contact could be mounted only in the middle position

- It is only used with the Emergency Stop head in the middle position (picture 1), because the construction of the body is designed to maintain the other two contacts on both sides (Picture 3).
- If a 2NC contact for safety and one NO contact for visualization is required, use ZBE102 and ZBE302 for safety, and ZBE101.
- ZBE101 and ZBE102 must be mounted on both sides of the ZBE302 (Picture 3).
- Only three contacts in total are required, including ZBE302. It is not possible to add another contact on the 2nd level (i.e. non-stackable).

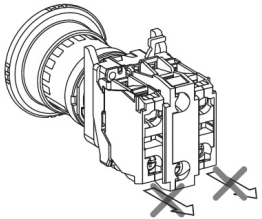
Picture 1



Picture 2



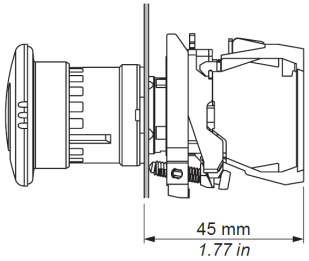
Picture 3



Dimensions

Depth dimension: 45mm

- Less than 2mm compared to 43mm for existing contact ZBE102.
- Easy to affix to an existing machine.



Entraxe 40x50mm

- 40mm minimum for X-dimension is suggested for most configurations where 40mm Emergency Stop heads are used like ZB4BS844 though 30mm is possible.
- 50mm for the Y dimension is necessary to avoid an electrical connection risk between other push buttons.