

RAFIX FS switching element emergency stop QC, silver, light guide, for LED clip, 1 NO



fields of application

- > Measurement-control-regulation
- > Electrical engineering
- > Mechanical and system engineering
- > Signalling systems
- > Vehicle construction
- > Agricultural and forestry machinery
- > Construction machinery
- > Handheld terminals
- > Industrial robots



description

These switching elements have internal plungers and therefore can only be combined with emergency stop and mushroom pushbuttons.

The QC switching elements can be latched into the actuators without the need for tools and with little effort. Wiring is performed in the conventional manner – directly with male quick-connect terminals. The fast and inexpensive version – in cases where no PCB is cost-effective.

QC mounting depths

- 26.8 mm for RAFIX 22 FS+ and RAFIX 22 FSR
- 32.8 mm for RAFIX 30 FS+:

The NC contacts of these switching elements are forcibly separated according to IEC 60947-5-1.

- > QC contact block for RAFIX 22 FS+, RAFIX FSR and RAFIX 30 FS
- > Connection: QC = Quick Connect
- > Only suitable for emergency stop and mushroom pushbutton
- > Silver contacts (= black housing)
- Version with light guide for SMT LED, without light guide for THT LED marking:
 - normally closed contacts = red plungers
 - normally open contacts = green plungers
 - normally closed and normally open contacts = yellow plungers



direct links

> RAFI eCatalog

technical data

> general

Disassembly possible no

Color black

Operating temperature, min. -40 °C
Operating temperature, max. 85 °C
Storage temperature, min. -40 °C
Storage temperature, max. 85 °C
illuminated Yes
Luminous elements LED

Lamp socket LED clip
Packaging unit 10 pcs.

net weight 4 g

Operating life electrical 1,000,000 (1A / 250V AC) cycles

100,000 (2A / 250V AC) cycles 30,000 (4A / 250V AC) cycles

B10 electrical 1.000.000 (1A / 250V AC) cycles

200.000 (2A / 250V AC) cycles 70.000 (4A / 250V AC) cycles

B10d 140,000 cycles
Environment resistance IEC 60068-2-14
IEC 60068-2-30

IEC 60068-2-33 IEC 60068-2-78

Shock resistance according to standard IEC 60068-2-27

15 g at 11 ms amplitude semi-sinusoidal

Vibration-resistance according to

standard IEC 60068-2-6

5 g at 10 - 500 Hz

MOQ order 10 pcs.

RoHS compliant Yes

REACH compliant Yes

> mounting diameters

Outside dimension, length 19.7 mm
Outside dimension, width 18.6 mm
Outside dimension, height 30.65 mm
Mounting depth 27 mm

> mechanical data

Operating force, max. 100 N Contact function 1 NO

Contact system Bridge contact

Contact material Silver
Fixing Latching
Solderability No

Terminal on the rear Flat quick-connect terminal 2.8 x 0.8

Connection marking Normally Open: 13/14, 23/24

> electrical data

Rated insulation voltage 250 V

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Rated surge voltage 2,500 V Rated voltage, min. 10 V Rated voltage, max. 250 V Voltage type AC / DC Rated operating voltage 10-250 V Rated current, min. 0.01 A Rated current, max. 4 A Rated power, min. 0.5 W Power loss 0.32000 W

Category of use AC-15 / B300 120 V / 3 A (IEC 60947)

240 V / 1,5 A (IEC 60947)

Categories of use AC-15 / B300

DC-13 / Q300

Category of use DC-13 / Q300 120 V / 0,55 A (IEC 60947)

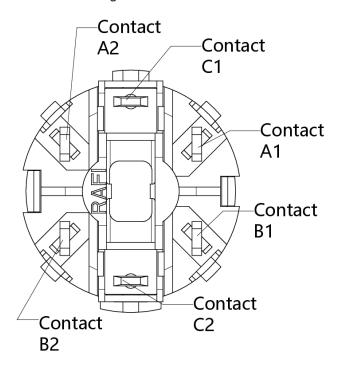
240 V / 0,27 A (IEC 60947)

Conditional short circuit current 1,000 A



drawings

Connection drawing



Contact block with LED-Clip

mounting



DEUTSCH (DE)

Betriebsanleitung NOT-HALT-BEFEHLSGERÄTE

Baureihe RAFIX 16, RAFIX 22 FS*, RAFIX 22 FSR, RAFIX 22 QR

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2. Allgemeine Beschreibung und bestimmungsgemäße

2. Allgemeine Beschreibung und bestimmungsgemäße Verwendung Not-Halt-Befehlsgeräte zur Kortender und der Schaltigeräte zur Macht-Befehlsgeräte sind elektromechanische Schaltigeräte zur Maschinen, Fahrzeuge und Anlagen in einen sicheren Zustand zu bringen, um Gefahren und Schäden für Mensch und Maschine zu vermeiden oder zu verringern. Für die Inbetriebnahme, den Einsatz und technischen Überprüfungen gelten im speziellen folgende Vorschriften:

• Die Maschinenrichtlinie 2008/42/EG

• Die Sicherheitsvorschriften sowie

• Die Unfallverheitungsvorschriften / Sicherheitsregeln Hersteller und Benutzer von Maschinen, an denen Not-Halt-Befehlsgeräte eingesetzt werden, tragen die Verantwortung für die Beachtung der Betriebsanfeitung, wie auch für die Einhaltung der in sie geltenden Sicherheitsvorschriften und regeln. Für den Tichbau und Betrieb von Not-Halt-Befehlsgeräten müssen zur bestimmungsgemäßen Verwendung folgende Anforderungen beachtet und eine Gefahrenbewertung durchgeführt werden:

• EN ISO 13889-1

3. Produktbeschreibung
Aufbau: Die Not-Halt-Befehlsgeräte bestehen aus einer Kombination von Betätigern mit einem oder mehreren Schaltelementen. Die Not-Halt-Befehlsgeräte gibt es als Einbauversion oder in einem Gehäuse verbaut. Die Betätigung erfolgt durch Drücken, die Entrigelung erfolgt in enach Variante entweder durch:

• Drehbewegung nach rechts oder beide Richtungen (je nach Variante)

"Aktiv/lnaktiv"-Varianten:
• "Aktiv": beleuchtet, rot, Not-Halt Funktion gegeben
• "Inaktiv": unbeleuchtet, transparent, keine Not-Halt Funktion

Varianten mit Schloss:

• Die Entriegelung erfolgt per Rechtsdrehung des Schlüssels nach Betätigung des Not-Halt-Befehlsgerätes. Der Schlüssel muss in jedem Betätigungszustand abgezogen werden und sollte sich nur während des Entriegelns im Betätiger befinden. Damit lassen sich Verletzungen der Hände vermeiden.

Ziehen entgegen der Betätigungsrichtung

ENGLISH (EN)

Operating Instructions **EMERGENCY STOP Control Units**

Series RAFIX 16, RAFIX 22 FS*, RAFIX 22 FSR, RAFIX 22 QR

2. General description and intended use Emergency stop control components are electromechanical switching devices for the protection of personnel. They are used for quick shutdown to bring machines, vehicles and systems into a safe condition to avoid or reduce hazards and damage to people

for quick studiown to bring machines, vehicles and samage to people and machines. The following regulations apply in particular to commissioning, use and technical inspections:

*The Machinery Directive 2006/42/EC

*The safety regulations as well as

*The accident prevention regulations / safety rules

*The sacking revention regulations / safety rules

*The safety regulations as well as or the observate of the operating manual, as well as for the observate of the operating manual, as well as for the observate of the operating manual, as well as for the observate of the operating manual, as well as for the observate of the operating manual, as well as for the observate of the safety rules and regulations applicable to them. For the installation and operation of emergency stop control components, the following requirements must be observed and a hazard assessment carried out for the intended use:

*EN ISO 13849-1

*EN ISO 13849-2

*EN ISO 13849-2

*EN ISO 13849-1

2. General description and intended use

FRANÇAIS (FR)

Mode d'emploi auxiliaires de commande d'ARRÊT D'URGENCE

Série RAFIX 16, RAFIX 22 FS⁺, RAFIX 22 FSR, RAFIX 22 QR

2. Description générale et utilisation conforme

2. Description genérale et utilisation conforme Les auxiliaires de commande d'arêt d'urgence sont des appareils de commutation électromécaniques de protection des personnes. Ils servent à la mise l'arêt rapide pour mettre les machines, vé-hícules et installations dans un état sûr, afin d'éviter ou réduire dangers et dommages pour les genes et la machine. Les prescriptions suivantes s'appliquent tout particulièrement pour la mise en service, l'utilisation et les vérifications techniques : *La directive machine 2006/42/CE.

La directive machine 2006/42/CE
Les prescriptions de sécurité et
Les prescriptions de sociatifé et
Les prescriptions de prévention des accidents / règles de sécurité
Le constructeur et l'utilisateur de machines sur lesquelles des auxiliaires de commande d'arrât d'urgence sont mis en œuvre assument la responsabilité du respect de la notice d'utilisation ainsi que des prescriptions et règles de sécurité qui s'appliquent aux. Pour le montage et l'exploitation d'auxiliaires de commande d'aertét d'urgence, les exigences suivantes doivent être respectéeu une évaluation des risques doit être menée pour une utilisation conforme:

- conforme : EN ISO 13849-1
- EN ISO 13850 EN ISO 13849-2

3. Description du produit Structure: les auxiliaires de commande d'arrêt d'urgence sont une combinaison d'actionneurs avec un ou plusieurs éléments de commutation. Les auxiliaires de commande d'arrêt d'urgence existent en version encastrable ou montés dans un boltier. L'actionnement est réalisé par pression, le dévenouillage selon la variante par : • Mouvement de rotation vers la droite ou dans les deux sens (selon la variante) • Tirage dans le sens contraire de l'actionnement 3. Product description

3. Product description
Structure: The emergency stop control components consist of a combination of actuators with one or more switching elements. The emergency stop control components are available as a built-in version or installed in a housing. Actuation takes place by pressing, unlocking takes place depending on the type either by:

 Rotation to the right or both directions (depending on the variant)

Pulling against the actuating direction

"Active/Inactive" types:
• "Active": illuminated, red, emergency stop function active
• "Inactive": non-illuminated, transparent, no emergency stop

ypes with a key lock:
Unlocking is performed by turning the key to the right after actuating the emergency stop control component. The key must be
removed in every actuation state and should only be in the actuator during unlocking. This helps to avoid injuries to the hands.

'ariantes « actiffinactif » :
« Actif » : éclairé, rouge, fonction d'arrêt d'urgence présente
« Inactif » : non éclairé, transparent, aucune fonction d'arrêt d'urgence

ariantes avec serrure:

**Le déverrouillage est réalisé par rotation à droite de la clé après actionnement de l'auxiliaire de commande d'arrêt d'urgence. La clé doit pouvoir être retirée dans n'importe quel état d'actionnement et ne doit se trouver dans l'actionneur que pendant le déverrouillage. Ceci permet d'éviter les blessures aux mains.

Ø 16.2 RAFIX 16 □ 22.3 Ø 22.3 RAFIX 16 F 1.30.243.xxx/xxxx 9.30.243.xxx/xxxx RAFIX 22 QR Ø 22.3 9.20.125.xxx/xxxx RAFIX 22 FS Ø 22.3 1.20.126.xxx/xxxx 1.20.146.xxx/xxxx 9.20.126.xxx/xxxx 9.20.146.xxx/xxxx RAFIX 22 FSR Ø 22.3

Weitere technische Daten sind dem eCatalog zu entnehmen: ecatalog.rafi-group.com Further technical data can be found in the eCatalog: ecatalog.rafi-group.com Vous trouveroz d'autres données techniques dans le eCatalog: ecatalog.rafi-group.com

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