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RAFIX FS switching element emergency stop PCB, gold, for THT LED, 1 NO

DISCONTINUED



Description

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

The PCB switching elements are positioned on a PCB shared with other components. These can subsequently be mounted behind the front panel together with the actuators and signal indicators. The switching elements "float" directly underneath the actuators on the PCB behind the front panel and leave plenty of space for other components.

In the center channel of the switching element, there are either light conductors for the use of SMT-LEDs, or 3 mm THT LEDs can be installed for illumination.

PCB mounting depths

- 9.2 mm for RAFIX 22 FS+ and RAFIX 22 FSR
- 15.7 mm for RAFIX 30 FS+:

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

- > PCB contact block for RAFIX 22 FS+, RAFIX FSR and RAFIX 30 FS
- > Only suitable for emergency stop and mushroom pushbutton
- > Gold contacts (= grey housing)
- > Mounting: Soldering on printed circuit board
- > Version with light guide for SMT LED, without light guide for THT LED
- > marking:
 - normally closed contacts = red plungers
 - normally open contacts = green plungers
 - N/C and N/O contacts = yellow plungers
 - 2 N/C and 1 N/O contacts = red plungers



technical data

| > | general | | |
|---|-----------------------------|---------------|-----------------|
| | Disassembly possible | no | direct links |
| | Color | slate gray | > RAFI eCatalog |
| | 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 | THT LED | |
| | Soldering | Manual / wave | |

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| | Solder heat resistance according | DIN EN 60068-2-20 | | | |
|---|-------------------------------------------------------|-----------------------------------------|--|--|--|
| | to standard | | | | |
| | Packaging unit | 30 pcs. | | | |
| | net weight | 2.2 g | | | |
| | Operating life electrical | 1.000.000 (10mA / 24V DC) cycles | | | |
| | B10 electrical | 1.300.000 (10mA / 24V DC) cycles | | | |
| | B10d | 2,600,000 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 | 5 g at 10 - 500 Hz | | | |
| | standard IEC 60068-2-6 | | | | |
| | Minimum order quantity (MOQ) | 30 pcs. | | | |
| | RoHS compliant | Yes | | | |
| | REACH compliant | Yes | | | |
| | country of origin | HU | | | |
| > | mounting diameters | | | | |
| | Outside dimension, length | 17.3 mm | | | |
| | Outside dimension, width | 17.3 mm | | | |
| | Outside dimension, height | 16.9 mm | | | |
| | Mounting depth | 9.2 mm | | | |
| > | mechanical data | | | | |
| | Operating force, max. | 100 N | | | |
| | Contact function | 1 NO | | | |
| | Contact system | Bridge contact | | | |
| | Contact material | Gold | | | |
| | Fixing | Soldering | | | |
| | Solderability | Yes | | | |
| | Terminal on the rear | ТНТ | | | |
| > | electrical data | | | | |
| | Rated insulation voltage | 50 V | | | |
| | Rated surge voltage | 500 V | | | |
| | Rated voltage, min. | 0.02 V | | | |
| | Rated voltage, max. | 35 V | | | |
| | Rated current, min. | 0.001 A | | | |
| | Rated current, max. | 0.1 A | | | |
| | Rated power, max. | 0.25 W | | | |
| | Categories of use | AC-15 | | | |
| | | DC-13 | | | |
| 、 | Conditional short circuit current | 1,000 A | | | |
| > | Specifications according to IEC 6094 | | | | |
| | Rated surge voltage | 500 V | | | |
| | | | | | |

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Use according to UL:

RAFIX control devices are defined at RAFI as modular elements, consisting of an actuating element, if necessary a coupling and an individual contact or lighting unit.

Actuating elements (such as pushbuttons, emergency stop actuators, etc.) have the intended tactility, reset and function only when assembled with the appropriate switching elements.

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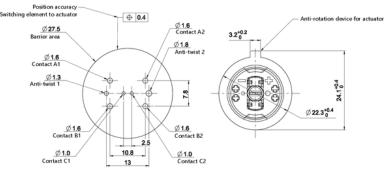
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drawings

System drawing



Assembly side PCB THT

| Variant | 1NO | 1NC | 2NO | 2NC | 1NO+1NC | Plus 1 |
|---------------------------|-----------------------|-------------------|----------------|----------------|----------------------|----------------------------------|
| Contact A1/A2 | 1NO | - | 1NO | 1NC | 1NO | 1NC |
| Connection designation 1x | 13 - 14 | | 13 - 14 | 11-12 | 13 - 14 | 11-12 |
| Contact B1/B2 | | 1NC | 1NO | 1NC | 1NC | 1NC |
| Connection designation 2x | | 21-22 | 23-24 | 21-22 | 21-22 | 21-22 |
| Contact C1/C2 | LED* | LED* | LED* | LED* | LED* | 1NO |
| Connection designation 1x | X1-X2 | X1-X2 | X1-X2 | X1-X2 | X1-X2 | 33-34 |
| * Only if required | 13 X1 000 14 X2 | X1 00 X2 21 22 | 13 X1 23 | x1 x1 21 | 13 X1 21 22 | 11 33 21 21 21 21 |

Actuator with 3 switching positions

Actuator with 2 switching positions

0 1 (B1/B2) 2 (A1/A2)

0 1 (A1/A2; B1/B2)

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mounting

DEUTSCH (DE) Betriebsanleitung

NOT-HALT-BEFEHLSGERÄTE

- Baureihe RAFIX 16, RAFIX 22 FS°, RAFIX 22 FSR, RAFIX 22 QR RAFLY 105, RAFK 22 FS*, RAFK 22 FS

- 2. Allgemeine Beschreibung und bestimmungsgemäße

- 2. Algemeine Beschreibung und bestimmungsgemäße Yenwendumg Not-Halt-Berfehlsgeräte sind elektromechanische Schaltgeräte zum Maschlarberfehlsgeräte sind elektromechanische Schaltgeräte zum Maschinen, Fahrzeuge und Anlagen in einen sicheren Zustand zu vermeiden oder zu verringern. Für die Inbetreibenahme, den Einsatz und technischen Überprüfun-gen getten im speziellen folgende Vorschriften: Die Maschinenrichtlinie 2004/2/EG Die Sicherheitsvorschriften zweitenetistengeln Hersteller und Benutzer von Maschinen, an denen Not-Halt-Be-follsgeräte eingesetzt werden, tragen die Verantwortung für die Beachtung der Betriebsanleitung, wie auch für die Einhaltung der für sie geltenden Sicherheitsvorschriften und regeln. Für den Ein-bau und Betrieb von Not-Halt-Befehlsgeräten müssen zur bestim-mungsgemäßen Verwendung folgende Anforderungen beachtet und eine Gefahren dwervertung durchgeführt werden: EN ISO 13800 EIN SIO 13849-1
- EN ISO 13849-2
- EN 60204-1/A1
 EN 60947-5-5

3. Produktbeschreibung Aufbau: Die Not-Halt-Befehlsgeräte bestehen aus einer Kombinati-on von Breitärger mit einem oder mehreren Schaltelementen. Die Not-Halt-Befehlsgeräte gibt es als Einbauversion oder in einem Gehäuse verbaut. Die Betätigung erfolgt durch Drücken, die Ent-riegelung erfolgt ie nach Variante entweder durch: • Drehbewegung nach rechts oder beide Richtungen (je nach Variante)

Ziehen entgegen der Betätigungsrichtung

- "Aktiv/Inaktiv"-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.

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

- 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

In Gauce stratutionen to tring interface y vehicles and alian systems into a safe confliction to avoid or reduce heards and alianage to people and intolwing regulations apply in particular to commissioning, use and technical inspections: the machinery Directive 2006/42/EC - The safety regulations as we well as - The accident prevention regulations / safety rules Manufacturers and users of machinery on which emergency stop control components are used assume responsibility for the obser-vance of the operating manual, as well as for the observance of the safety rules and regulations applicable to them. For the installation and operation of emergency stop control components, the follow-ing requirements must be observed and a hazard assessment car-ried out for the intended use: - EN ISO 13849-1 - EN ISO 13849-2 - EN ISO 13849-2

- EN 60204-1/A1
 EN 60947-5-5

3. Product description

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 press-ing, 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

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



RAFI

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 générale et utilisation conforme Les auxiliares de commande d'arrêt d'urgence sont des appareils de commutation électromécaniques de protection des appareils les servent à la mise l'arrêt rapide pour mettre les machines, vé-hicules et installations dans un état súr, afin d'éviter ou réduire dangers et donmages 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 sociarité et Les prescriptions de sociarité et Les prescriptions de prévention des accidents / règles de sécu-rité Le constructeur et l'utilisateur de machines sur lesquelles des au-suitiliaires de commande d'arrêt d'urgence sont mis en œuvre assu-ment la responsabilité du respect de la notice d'utilisation ainsi que des prescriptions et régles de sécurité qui s'appliquent à eux. Pour le montage et l'exploitation d'auxiliaires de commande d'ar-tét d'urgence, les exigences suivantes doivent être respectées et une évaluation des risques doit être menée pour une utilisation conforme : conforme : • EN ISO 13849-1

• EN ISO 13850 • EN ISO 13849-2 • EN 60204-1/A1 • EN 60947-5-5

Description du produit
 Structure: les auxiliaires de commande d'arrêt d'urgence sont une combinaison d'actionneurs avec un ou plusieurs éléments de com-mutation. Les auxiliaires de commande d'arrêt d'urgence existent en version encastrable ou montés dans un botier. L'actionnement est réalisé par pression, le déverouillage 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

/ariantes « actif/inactif » : « 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 rélaié par rotation à droite de la clé après actionnement de l'auxiliaire de commande d'arrêt d'urgénce. La clé doit pouvoir être retirée dans n'importe quel état d'action-nement et ne doit se trouver dans l'actionneur que pendant le déverrouillage. Ceci permet d'éviter les blessures aux mains.
- Einbau Ø mm Mounting Ø mm Montage Ø mm Schaltelement Contact Block Elément de con 1.30.074.xxx/xxxx 9.30.074.xxx/xxxx Ø 16.2 RAFIX 16 1.20.123.xxx/xxxx 9.20.123.xxx/xxxx □ 22.3 Ø 22.3 1.30.094.xxx/xxxx 9.30.094.xxx/xxxx RAFIX 16 F 1.20.124.xxx/xxxx 1.20.125.xxx/xxxx 5.00.100.xxx/xxxx 1.30.243.xxx/xxxx 9.30.243.xxx/xxxx RAFIX 22 QR Ø 22.3 9.20.124.xxx/xxx 9.20.125.xxx/xxxx RAFIX 22 FS Ø 22.3 1.30.253.xxx/xxxx 9.30.253.xxx/xxxx 1.20.126.xxx/xxxx 1.20.146.xxx/xxxx 9.20.126.xxx/xxxx 9.20.146.xxx/xxxx 1.30.273.xxx/xxxx 9.30.273.xxx/xxxx RAFIX 22 FS Ø 22.3 1.30.283.xxx/xxxx 9.30.283.xxx/xxxx RAFIX 22 FSR Ø 22.3

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Tabelle 3.1 Table 3.1 Tableau 3.1 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 trouverez d'autres données techniques dans le eCatalog : ecatalog.rafi-group.com

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

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