

RAFIX 22 FSR, emergency stop, round collar, metal mushroom head, reset by pulling, Mushroom head red



fields of application

- > Measurement-control-regulation
- > Mechanical and system engineering
- > Agricultural and forestry machinery
- > Construction machinery

special features

- > Emergency stop in classic design
- Small installation depth 9.2 mm (PCB) or 27 mm (QC)
- Connection types: printed circuit board connection (PCB) or flat quick-connect terminals (QC)
- PCB switching elements minimize assembly errors
- Switching elements with silver contacts (max. 250 V/4 A) or gold contacts (max. 35 V/100 mA)
- Degree of protection: IP 65 / IP 67 / IP 69K front side



description

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.

The emergency stop buttons correspond to IEC 60 947 and VDE 0113 Part 1. Thanks to a forcibly actuated mechanical motion sequence, they are dupe-proof in accordance with DIN EN ISO 13850. In order to prevent unintentional actuation, a tactile feedback must be overcome. The key switch locks into the pressed position.

The design of the actuator protects the emergency stop button from interlocking. This means that an initiated emergency stop procedure cannot be interrupted by jamming objects.

Only use with the emergency stop switching element.

The illuminated version is illuminated through a central round window.

technical data

| > general | |
|-----------|--|
|-----------|--|

| Disassembly possible | no |
|------------------------------|--------|
| Color of mushroom | red |
| Property of bezel / mushroom | opaque |
| Collar shape | round |
| Operating temperature, min. | -40 °C |

The information in this data sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which my change due to further product enhancements. The technical data, illustrations and other information about our products are the mere results of individual technical testing. These descriptions and other product features are only binding if they expressly agreed upon at the time of the conclusion of a binding contract. In all other cases, we reserve the right to make technical changes as well as changes of availability. Pictures and other graphic illustrations are approximations only. All product names may be trademarks or brand names of the RAFI Group or any other sub-supplier of RAFI. The use of such by any third parties for their own purposes may infringe the rights of the respective entity holding those rights. **date**: Aug 31, 2024 **page**: 1/5

direct links

> RAFI eCatalog

RAFI GmbH & Co. KG

>

>

1.30.283.611/0300



| | Operating temperature, max. | 85 °C |
|---|---|----------------|
| | Storage temperature, min. | -40 °C |
| | Storage temperature, max. | 85 °C |
| | illuminated | No |
| | Packaging | Box |
| | Packaging unit | 2 pcs. |
| | net weight | 15.7 g |
| | Operating life | 10,000 cycles |
| | B10 | 13,000 cycles |
| | B10d | 26,000 cycles |
| | Degree of protection, front side, | IP65 |
| | according to DIN EN 60529 | IP67 |
| | | IP69 |
| | Degree of protection, front side, | IPx9K |
| | according to ISO 20653 | |
| | UL Enclosure Type Rating front | type 1 |
| | side | type 4X indoor |
| | Environment resistance | IEC 60068-2-14 |
| | | IEC 60068-2-30 |
| | | IEC 60068-2-33 |
| | | IEC 60068-2-78 |
| | Salt-spray resistance according to standard | IEC 60068-2-11 |
| | Impact resistance IK | 07 |
| | MOQ order | 10 pcs. |
| | RoHS compliant | Yes |
| | REACH compliant | Yes |
| • | mounting diameters | 100 |
| | Outside dimension, length | 31.3 mm |
| | Outside dimension, width | 31.3 mm |
| | Outside dimension, height | 49.4 mm |
| | Mounting hole | 22.3 mm |
| | Mounting depth | 9.2 mm |
| | Installation height | 41.1 mm |
| | Grid, min. | 40 x 40 mm |
| | Collar dimension | ø 31,3 mm |
| • | mechanical data | |
| | Actuation function | latching |
| | Operating force, max. | 100 N |
| | Resistance to force on the side | 750 N |
| | Resetting | by pulling |
| | Fixing | Threaded ring |
| | Threaded ring torque, max. | 2 Nm |
| | | |

The information in this data sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which my change due to further product enhancements. The technical data, illustrations and other information about our products are the mere results of individual technical testing. These descriptions and other product features are only binding if they expressly agreed upon at the time of the conclusion of a binding contract. In all other cases, we reserve the right to make technical changes as well as changes of availability. Pictures and other graphic illustrations are approximations only. All product names may be trademarks or brand names of the RAFI Group or any other sub-supplier of RAFI. The use of such by any third parties for their own purposes may infringe the rights of the respective entity holding those rights. **date**: Aug 31, 2024 **page**: 2/5

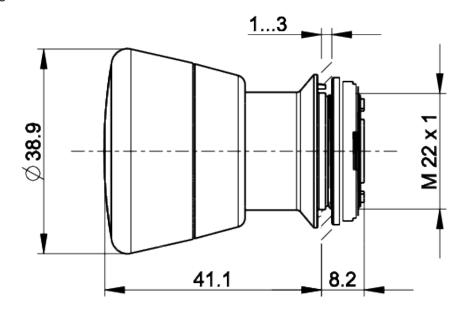
RAFI GmbH & Co. KG

1.30.283.611/0300

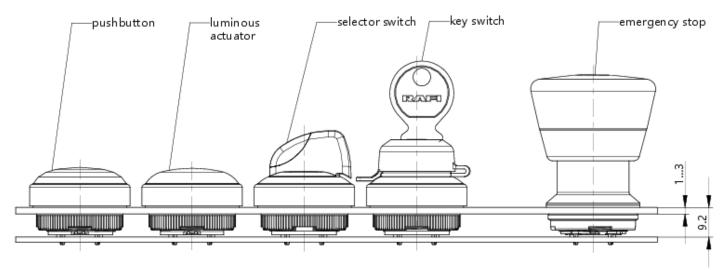


drawings

Dimensioned drawing



System drawing



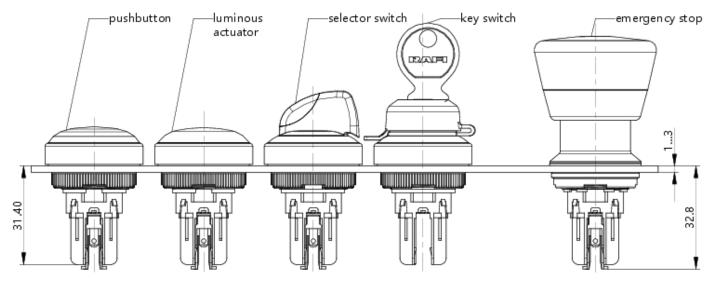
The information in this data sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which my change due to further product enhancements. The technical data, illustrations and other information about our products are the mere results of individual technical testing. These descriptions and other product features are only binding if they expressly agreed upon at the time of the conclusion of a binding contract. In all other cases, we reserve the right to make technical changes as well as changes of availability. Pictures and other graphic illustrations are approximations only. All product names may be trademarks or brand names of the RAFI Group or any other sub-supplier of RAFI. The use of such by any third parties for their own purposes may infringe the rights of the respective entity holding those rights. **date**: Aug 31, 2024 **page**: 3/5

RAFI GmbH & Co. KG





System drawing



The information in this data sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which my change due to further product enhancements. The technical data, illustrations and other information about our products are the mere results of individual technical testing. These descriptions and other product features are only binding if they expressly agreed upon at the time of the conclusion of a binding contract. In all other cases, we reserve the right to make technical changes as well as changes of availability. Pictures and other graphic illustrations are approximations only. All product names may be trademarks or brand names of the RAFI Group or any other sub-supplier of RAFI. The use of such by any third parties for their own purposes may infringe the rights of the respective entity holding those rights. **date**: Aug 31, 2024 **page**: 4/5

RAFI GmbH & Co. KG

1.30.283.611/0300



mounting

DEUTSCH (DE) Betriebsanleitung NOT-HALT-BEFEHLSGERÄTE

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

- 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-Befchlsgeräte bestehen aus einer Kombinati-on 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 Ent-riegelung erfolgt je 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

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

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

- RAFLY 105, RAFK 22 FS*, RAFK 22 FS

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

- Variantes 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'action-nement et ne doit se trouver dans l'actionneur que pendant le déverrouillage. Ceci permet d'éviter les blessures aux mains.

| Produkt Product Produit | Einbau Ø mm Mounting Ø mm Montage Ø mm | Betätiger Actuator Actionneur | Schaltelement Contact Block Elément de commutation |
|-------------------------------|--|--|---|
| RAFIX 16 | Ø 16.2 | 1.30.074.xxx/xxxx 9.30.074.xxx/xxxx | 1.20.123.xxx/xxxx 9.20.123.xxx/xxxx |
| RAFIX 16 F | □ 22.3 Ø 22.3 | 1.30.094.xxx/xxxx 9.30.094.xxx/xxxx | |
| RAFIX 22 QR | Ø 22.3 | 1.30.243.xxx/xxxx 9.30.243.xxx/xxxx | 1.20.124.xxx/xxxx 1.20.125.xxx/xxxx 5.00.100.xxx/xxxx 9.20.124.xxx/xxxx 9.20.125.xxx/xxxx |
| RAFIX 22 FS | Ø 22.3 | 1.30.253.xxx/xxxx 9.30.253.xxx/xxxx | 1.20.126.5000/0000 1.20.146.5000/0000 9.20.126.5000/0000 9.20.146.5000/0000 |
| RAFIX 22 FS+ | Ø 22.3 | 1.30.273.xxx/xxxx 9.30.273.xxx/xxxx | |
| RAFIX 22 FSR | Ø 22.3 | 1.30.283.xxx/xxxx 9.30.283.xxx/xxxx | |

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

RAFI GmbH & Co. KG

Ravensburger Str. 128-134 88276 Berg / Ravensburg Germany . www.rafi-group.com info.headquarters@rafi-group.com

The information in this data sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which my change due to further product enhancements. The technical data, illustrations and other information about our products are the mere results of individual technical testing. These descriptions and other product features are only binding if they expressly agreed upon at the time of the conclusion of a binding contract. In all other cases, we reserve the right to make technical changes as well as changes of availability. Pictures and other graphic illustrations are approximations only. All product names may be trademarks or brand names of the RAFI Group or any other sub-supplier of RAFI. The use of such by any third parties for their own purposes may infringe the rights of the respective entity holding those rights. date: Aug 31, 2024 page: 5/5