

RAFIX 22 FS⁺, compact emergency stop, illuminated, reset by rotating, Mushroom head red, illuminable



fields of application

- > Measurement-control-regulation
- > Electrical engineering
- > Mechanical and system engineering
- > Vehicle construction
- > Handheld terminals
- Industrial robots

special features

- > Emergency stop with compact design
- Low installation depth 9.2 mm (PCB) or 27 mm (QC)
- Connection types: printed circuit board connection (PCB) or plug-in connection (QC)
- PCB switching elements minimize mounting errors
- Switching elements with silver contacts (max. 250 V/4 A) or gold contacts (max. 35 V/100 mA)
- > Degree of protection: IP 65 at the front



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.

With the illuminated versions, only the arrows are illuminated.

technical data

>	general
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Disassembly possible	no
Color of mushroom	red
Property of bezel / mushroom	opaque
Collar shape	round
Operating temperature, min.	-25 °C
Operating temperature, max.	70 °C

direct links

RAFI eCatalog

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1.30.273.311/2300



Storage temperature, min.	-40 °C	
Storage temperature, max.	80 °C	
illuminated	Yes	
Packaging	Box	
Packaging unit	10 pcs.	
net weight	13.7 g	
Operating life	50,000 cycles	
B10	72,000 cycles	
B10d	144,000 cycles	
Degree of protection, front side,	IP65	
according to DIN EN 60529	IP67	
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	
MOQ order	10 pcs.	
MOQ order RoHS compliant	10 pcs. Yes	
RoHS compliant	Yes	
RoHS compliant REACH compliant	Yes	
RoHS compliant REACH compliant mounting diameters	Yes Yes	
RoHS compliant REACH compliant mounting diameters Outside dimension, length	Yes Yes 29.8 mm	
RoHS compliant REACH compliant mounting diameters Outside dimension, length Outside dimension, width	Yes Yes 29.8 mm 29.8 mm	
RoHS compliant REACH compliant mounting diameters Outside dimension, length Outside dimension, width Outside dimension, height	Yes Yes 29.8 mm 29.8 mm 35 mm	
RoHS compliant REACH compliant mounting diameters Outside dimension, length Outside dimension, width Outside dimension, height Mounting hole	Yes Yes 29.8 mm 29.8 mm 35 mm 22.3 mm	
RoHS compliant REACH compliant mounting diameters Outside dimension, length Outside dimension, width Outside dimension, height Mounting hole Mounting depth	Yes Yes 29.8 mm 29.8 mm 35 mm 22.3 mm 9.2 mm	
RoHS compliant REACH compliant mounting diameters Outside dimension, length Outside dimension, width Outside dimension, height Mounting hole Mounting depth Installation height	Yes Yes 29.8 mm 29.8 mm 35 mm 22.3 mm 9.2 mm 25.9 mm	
RoHS compliant REACH compliant mounting diameters Outside dimension, length Outside dimension, width Outside dimension, height Mounting hole Mounting depth Installation height Grid, min.	Yes Yes 29.8 mm 29.8 mm 35 mm 22.3 mm 9.2 mm 25.9 mm 35 x 35 mm	
RoHS compliant REACH compliant mounting diameters Outside dimension, length Outside dimension, width Outside dimension, height Mounting hole Mounting depth Installation height Grid, min. Collar dimension	Yes Yes 29.8 mm 29.8 mm 35 mm 22.3 mm 9.2 mm 25.9 mm 35 x 35 mm	
RoHS compliant REACH compliant mounting diameters Outside dimension, length Outside dimension, width Outside dimension, height Mounting hole Mounting depth Installation height Grid, min. Collar dimension mechanical data	Yes Yes 29.8 mm 29.8 mm 35 mm 22.3 mm 9.2 mm 25.9 mm 35 x 35 mm Ø 29,8 mm	
RoHS compliant REACH compliant mounting diameters Outside dimension, length Outside dimension, width Outside dimension, height Mounting hole Mounting depth Installation height Grid, min. Collar dimension mechanical data Actuation function	Yes Yes 29.8 mm 29.8 mm 35 mm 22.3 mm 9.2 mm 25.9 mm 35 x 35 mm ø 29,8 mm	
RoHS compliant REACH compliant mounting diameters Outside dimension, length Outside dimension, width Outside dimension, width Outside dimension, height Mounting hole Mounting depth Installation height Grid, min. Collar dimension mechanical data Actuation function Operating force, max.	Yes Yes 29.8 mm 29.8 mm 35 mm 22.3 mm 9.2 mm 25.9 mm 35 x 35 mm ø 29,8 mm latching 100 N	

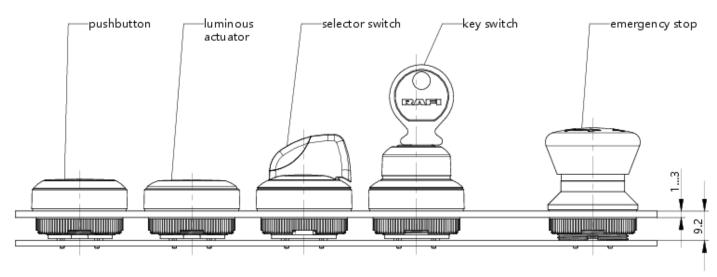
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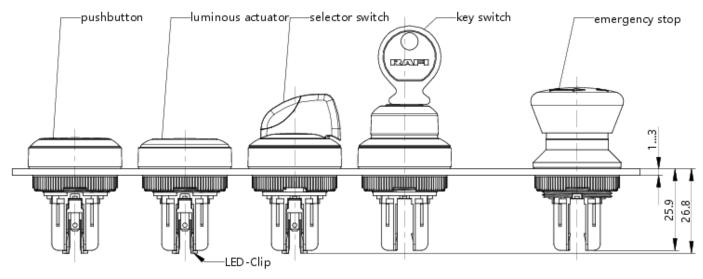


drawings

System drawing



System drawing



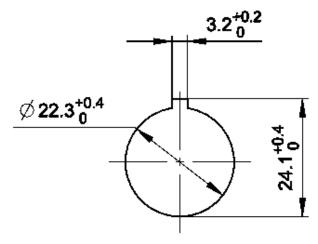
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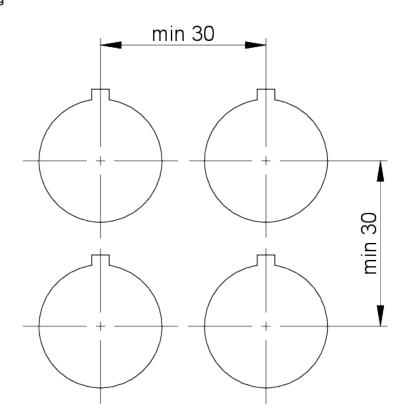


Mounting hole drawing



acc. to IEC 60947-5-1

front panel drawing



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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

function

Types 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.



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 boîtier. L'actionnement est réalisé par pression, le déverrouillage 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'urgénec. 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 9.20.124.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 9.20.146.xxx/xxxx
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

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

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