

RAFIX FS switching element emergency stop QC, silver, 1 NC + 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.

While the NO contacts are labeled 13/14 or 23/24, the NC contacts are labeled 11/12 or 21/22. In the connection drawing, the first contact is described as contact A, while the second contact is described as contact B.

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

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technical data



>	general		
	Disassembly possible	no	direct links
	Color	black	➤ RAFI eCatalog
	Operating temperature, min.	-40 °C	
	Operating temperature, max.	85 °C	
	Storage temperature, min.	-40 °C	
	Storage temperature, max.	85 °C	
	illuminated	Yes	
	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	
	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 NC + 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 Closed: 11/12, 21/22 Normally Open: 13/14, 23/24	
>	electrical data		
	Rated insulation voltage	250 V	
	Rated surge voltage	2,500 V	
	Rated voltage, min.	10 V	
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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	0.64000 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

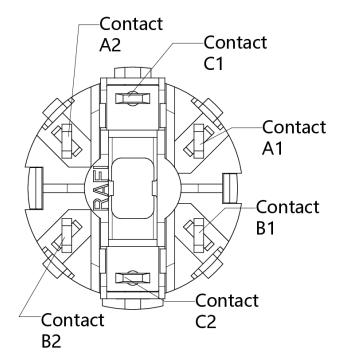
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drawings

Connection drawing



Contact block with LED-Clip

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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-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 abgzogen 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



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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

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	1.20.123.00x/xxxx 9.20.123.00x/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	1.20.126.000/x00x 1.20.146.000/x00x 9.20.126.000/x00x 9.20.146.000/x00x	
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

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