

RAFIX 22 QR, emergency stop, reset by rotating, Mushroom head red, arrows red



fields of application

- > Measurement-control-regulation
- > Electrical engineering
- > Mechanical and system engineering
- > Vehicle construction

special features

- > Opaque mushroom
- Options: Key, mechanical switch position indicator, illuminated window, unlocking by pulling
- Robust also suitable for operation with gloves
- Additional protection against twisting due to threaded ring with claw
- Firmly molded collar seal, cannot twist or be lost during installation.
- I-person mounting: the element is clamped by the seal in the mounting hole and can then be screwed from behind.
- Degree of protection: IP 65 at the front (Except emergency stop with lock)
- > Mounting diameter 22.3 mm
- > Separate switching elements required
- Close mounting of actuators possible (min. 30 x 60 mm), since wiring is required axially from behind
- Switching elements with silver contacts (max. 400 V) or gold contacts (max. 35 V / 100 mA)

Connection types switching elements: cage clamp, screw connection or plug-in connection



RAFI GmbH & Co. KG

technical data sheet 1.30.243.501/0300



description

RAFIX control units are modular units consisting of several parts. In the RAFIX 22 QR family, they always consist of an actuating element, coupling and switching element. For assembly, the switching elements and lamp sockets are first snapped into the coupling. Then this unit is snapped onto the emergency stop. To release it, a bayonet lever must be actuated.

The emergency stop pushbuttons comply with IEC 60 947 and VDE 0113 Part 1. They are protected against unauthorized actuation by a positively guided mechanical movement sequence in accordance with DIN EN ISO 13850. To protect against accidental actuation, a pressure point must be overcome. The pushbutton engages in the pressed position. Due to the shape of the actuating element, the emergency stop pushbutton is protected against blocking. This means that an initiated emergency stop process cannot be interrupted by jamming objects.

Switching position indicator: When not actuated, a green ring is visible on the side.

Emergency stop actuators have the specified tactility and function only when assembled with the appropriate switching elements. Use lamp socket / LED element. A maximum of two switching elements (several contacts) may be used. The middle coupling position may only be used for lighting purposes.

technical data

>	general		
	Color of mushroom	red	direct links
	Legending color	red	> RAFI eCatalog
	Collar shape	round	
	Operating temperature, min.	-25 °C	
	Operating temperature, max.	70 °C	
	Storage temperature, min.	-40 °C	
	Storage temperature, max.	80 °C	
	illuminated	No	
	Packaging	Box	
	Packaging unit	2 pcs.	
	net weight	35.6 g	
	Operating life	100,000 cycles	
	B10	130,000 cycles	
	B10d	260,000 cycles	
	Degree of protection, front side, according to DIN EN 60529	IP65	
	Environment resistance	IEC 60068-2-14	
		IEC 60068-2-30	
		IEC 60068-2-33	
		IEC 60068-2-78	
	MOQ order	2 pcs.	
	RoHS compliant	Yes	
	REACH compliant	Yes	
>	mounting diameters		
	Outside dimension, length	29.8 mm	

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**: Sep 28, 2023 **page**: 2/7

RAFI GmbH & Co. KG





Outside dimension, width	29.8 mm
Outside dimension, height	63 mm
Mounting hole	22.3 mm
Mounting depth	56.4 mm
Installation height	40.1 mm
Grid, min.	50 x 50 mm
Collar dimension	ø 29,8 mm
> mechanical data	
Actuation function	latching
Operating force, max.	100 N
Resetting	by rotating
Fixing	Threaded ring
Threaded ring torque, max.	1.2 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**: Sep 28, 2023 **page**: 3/7

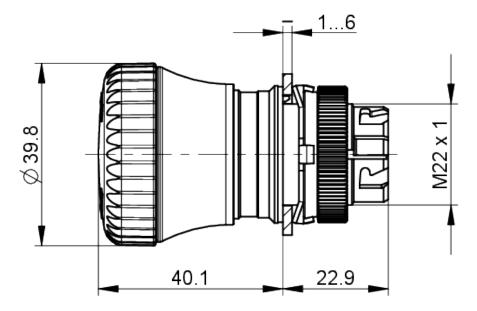
RAFI GmbH & Co. KG



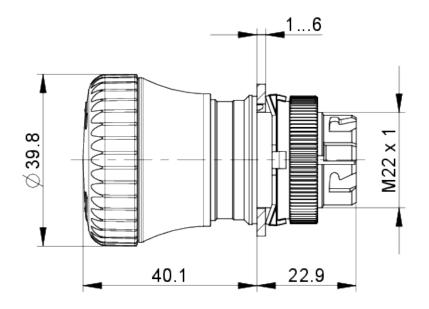


drawings

Dimensioned drawing



Dimensioned 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**: Sep 28, 2023 **page**: 4/7

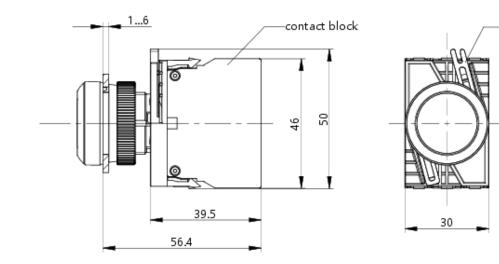
RAFI GmbH & Co. KG

1.30.243.501/0300

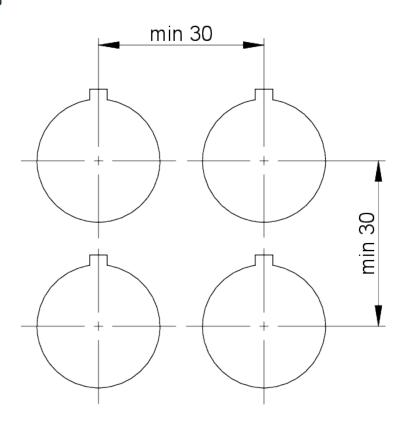


coupling

System drawing



front panel drawing



RAFI GmbH & Co. KG

1.30.243.501/0300

mounting

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**: Sep 28, 2023 **page**: 6/7

RAFI GmbH & Co. KG



1.30.243.501/0300



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

Betriebsanleitung Not-Halt-Befehlsgeräte

Operating Instructions EMERGENCY STOP Control Units

- ⚠
- 1. Sicherheitshinweise Vor Inbetriebnahme bitte Betriebsanleitung sorgfältig lesen
 - Not-Halt-Befehlsgeräte erfüllen eine Personenschutz-Funktion. Unsachgemäßer Einbau, sach
- \wedge Not-Halt-Befehlsgeräte dürfen nicht umgangen, entfernt oder auf andere Weise unwirksam
- ⚠
- gemacht werden! Vor Beginn der Installation Anlage und Gerät spannungsfrei schalten! <u>A</u>
- Vor Erst-Inbetriebnahme der Maschine oder Anlage Not-Halt-Befehlsgerät durch Testbetätigung auf korrekte Montage und Funktion überprüfen. Not-Halt-Befehlsgeräte mit sichtbaren Beschädigungen sind unverzüglich auszutauschen. ⚠
- <u>^</u>. Not-Halt-Funktion darf nicht als Ersatz für Schutzmaßnahmen oder andere Sicherheitsfunk-
- tionen verwendet werden. Not-Halt-Funktion darf die Wirksamkeit von Schutzreinrichtungen oder von Einrichtungen mit ⚠ anderen Sicherheitsfunktionen nicht beeinträchtigen.

(B) 1. Safety instructions

- e read the operating instructions carefully prior to use.
- Please read the operating instructions carefully prior to use.
 EMERGENCY STOP control units are designed to protect persons. Inappropriate installation,
 improper use or inadmissible manipulation may result in severe injuries!
 - EMERGENCY STOP control units must never be bypassed, removed or disabled in any other

 - Disconnect the power supply to the machinery and device prior to installation!
 - Operate the EMERGENCY STOP control unit to test and verify proper installation and function
 - prior to initial start-up of the machine or line. An EMERGENCY STOP control unit with an obvious defect must be replaced immediately
 - The emergency stop function is not to be used for safety measures or safety functions
 - The emergency stop function must not compromise the effectiveness of safety devices or devices with other safety functions.

(F) 1. Consignes de sécurité

- Il faut soigneusement lire le mode d'emploi avant la mise en service
- Il Taut soigneusement ille le moue d'enpris dout la construction de protection perLes auxiliaires de commande d'ARRÉTD'URGENCE remplissent une fonction de protection perles durantes de commande d'ARRÉTD'URGENCE remplissent une manipulation peuvent
- sonnelle. Un montage inapproprié, une application contre-indiquée ou une manipulation peuv \wedge
- causer des blessures corporelles graves! Il est interdit de ponter, d'enlever ou de rendre inopérants les auxiliaires de commande d'ARRÊT \wedge D'URGENCE!
- ⚠ Avant d'entamer l'installation il faut mettre l'installation et l'appareil hors tension!
- ⚠
- Avant la première mise en service de la machine ou de l'installation, contrôler l'auxillaire de commande d'ARRÊT D'URGENCE quart au montage et à un fonctionnement corrects. Les auxiliaires de commande d'ARRÊT D'URGENCE présentant des dommages visibles sont à remplacer sans tarder.
- ⚠ La fonction d'arrêt d'urgence ne peut pas être utilisée en remplacement de mesures de protec- \wedge tion ou d'autres fonctions de sécurité.
- La fonction d'arrêt d'urgence ne peut pas entraver l'efficacité de dispositifs de sécurité ou de \wedge
 - dispositifs possédant d'autres fonctions de sécurité

2. Allgemeine Beschreibung und bestimmungsgemäße Verwendung Not-Halt-Befehlsgeräte sind elektromechanische Schaltgeräte zum Schutz von Personen. Sie dienen der schnellen Abschaltung um Maschinen, Fahrzeuge und Anlagen in einen sicheren Zustand zu bringen, um Gefahren und Schäden für Mensch und Maschine zu vermeiden of verringern. Für die Inbetriebnahme, den Einsatz und technischen Überprüfungen gelten im speziellen fe

- de Vorschriften:
- Die Maschinenrichtlinie 2006/42/EG
- Die Sicherheitsvorschriften sowie
- Die Unfallverhütungsvorschriften / Sicherheitsregeln
 Hersteller und Benutzer von Maschinen, an denen Not-Halt-Befehlsgeräte eingesetzt werder gen die Verantwortung für die Beachtung der Betriebsanleitung, wie auch für die Einhaltun

für sie geltenden Sicherheitsvorschriften und -regeln. Für den Einbau und Betrieb von Not-Halt-Befehlsgeräten müssen zur bestimmungsgen Verwendung folgende Anforderungen beachtet und eine Gefahrenbewertung durchg wordon

- EN ISO 13849-1:2015 - EN ISO 13850:2015
- EN ISO 13849-2:2012 - EN 60204-1/A1:2009

(GB) 2. General description and intended use

EMERGENCY STOP control units are electromechanical switching devices designed to protect persons. They are used for instant disconnection to achieve a safe status of machines, vehicles or other equipment in order to avoid or reduce risks or damage to man and machine. The following standards and regulations apply to their start-up, use and technical inspections,

without limitation: Machinery Directive 2006/42/EC

- Safety standards

Accident prevention regulations / rules for safety Manufacturers and users of machines provided with EMERGENCY STOP control units are respon

sible for ensuring that the operating instructions are observed and the applicable safety standa and rules complied with.

- For the installation and operation of EMERGENCY STOP control devices in line with the intended
- use, the following requirements must be observed and a risk assessment must be performed EN ISO 13849-1-2015
- EN ISO 13850:2015 EN 60204-1/A1:2009 EN ISO 13849-2:2012

GB Table 3.1 For additional technical data, please refer to the catalogue

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: Sep 28, 2023 page: 7/7

CF 2. Description générale et application conforme aux prescriptions Les auxiliaires de commande d'ARRÊT D'URGENCE sont des appareils de commutation électromécaniques pour protéger des personnes. Ils servent à couper rapidement les machines, les véhicules et les installations, à les amener dans un état de sécurité fiable pour éviter ou diminuer

les risques de dommages corporels et de dégâts matériels. Pour la mise en service, l'utilisation et les contrôles techniques, il faut respecter les prescriptions

Mode d'emploi auxiliaires de commande

d'ARRÊT D'URGENCE

- La directive sur les machines selon la norme 2006/42/EG
- Les règlements de sécurité ainsi que
 Les instructions sur la prévention des accidents / règlements de sécurité

C'est aux fabricants et utilisateurs de machines où des auxiliaires de commande d'ARRÊT D'URGENCE son utilisés, qu'incombe la responsabilité du respect du mode d'emploi ainsi que des prescriptions et règlements de sécurité en vigueur. Pour l'installation et l'exploitation de dispositifs d'ARRÈT D'URGENCE, les exigences suivantes

doivent être respectées et une évaluation des risques doit être menée en vue d'une utilisation en bonne et due forme:

- EN ISO 13849-1:2015 - EN ISO 13850:2015
- EN ISO 13849-2:2012 EN 60204-1/A1:2009

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 Entriegelung erfolgt je nach Variante entweder durch: - Drehbewegung nach links oder nach rechts

- Ziehen entgegen der Betätigungsrichtung "Aktiv/Inaktiv"-Varianten: "Aktiv": beleuchtet, rot, Not-Halt Funktion gegeben; "Inaktiv": unbe-

leuchtet, transparent, keine Not-Halt Funktion.

(B) 3. Product description

Design: An EMERGENCY STOP button is an assembly of actuator combined with one or more contact blocks. EMERGENCY STOP buttons are available either as a panel mounting version or

- installed in a separate housing. They are operated by pressing. Unlatching is done by one of two methods:
- Turning clockwise or counter clockwise
- Pulling against the direction of operation "Aktiv/Inaktiv"-Variants: "Aktiv": illuminated red, Emergency Stop function given; "Inaktiv": not illuminated, transparent, no Emergency Stop function.

🕞 3. Description de produit

Structure: Les boutons-poussoirs d'ARRÊT D'URGENCE sont composés d'une combinaisor d'actionneurs ou de plusieurs éléments de commutation. Les boutons-pousoirs d'ARRÉT D'URGENCE sont disponibles en version intégrable ou installés dans un boîtier. L'actionnement s'effectue par appui sur ces derniers. Selon la variante, le déverrouillage s'effectue

soit par: - Un mouvement de rotation, soit vers la gauche, soit à droite

- Soit en tirant dans la direction opposée de la direction d'actionnement

"Aktiv/Inaktiv"-Variantes: "Aktiv": li trouge, d'arrêt d'urgence fonction donné; "Inaktiv": pas lit, transparent, pas de d'arrêt d'urgence fonction.

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	□23,1 Ø22,3	1.30.094.xxx/xxxx 9.30.094.xxx/xxxx	9.20.123.000000
RAFIX 22 QR	Ø 22,3	1.30.243.xxx/xxxx 9.30.243.xxx/xxxx	5.00.100.xxx/xxxx 1.20.124.xxx/xxxx 1.20.125.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.xxx/xxxx 9.20.126.xxx/xxxx
RAFIX 22 FS ⁺	Ø 22,3	1.30.273.xxx/xxxx 9.30.273.xxx/xxxx	1.20.126.xxx/xxxx 9.20.126.xxx/xxxx
RAFIX 22 FSR	Ø 22,3	1.30.283.xxx/xxxx 9.30.283.xxx/xxxx	1.20.126.xxx/xxxx 9.20.126.xxx/xxxx

(D) Tabelle 3.1 Weitere technische Daten sind dem Katalog zu entnehmen

(F) Tableau 31 Pour les autres caractéristiques techniques, voir catalogue

RAFI GmbH & Co. KG

en Zu-			
der zu olgen-	Produkt Product Produit	Einbau Ømm Mounting Ømm Montage Ømm	Betätiger Actuator Actionneur
	RAFIX 16	Ø 16,2	1.30.074.xxx/xxxx 9.30.074.xxx/xxxx
	RAFIX 16 F	2 3,1	1.30.094.xxx/xxxx
in, tra-		Ø 22,3	9.30.094.xxx/xxxx
ng der näßen eführt	RAFIX 22 QR	Ø 22,3	1.30.243.xxx/xxxx 9.30.243.xxx/xxxx
	RAFIX 22 FS	Ø 22,3	1.30.253.xxx/xxxx 9.30.253.xxx/xxxx

