

## RAFIX 22 QR, emergency stop, reset by pulling, Mushroom head red



### 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.

### Additional information according to UL certificate:

- These devices should be mounted in an overall enclosure with sufficient stability and with the specified clearances.



### technical data

#### ➤ general

Color of mushroom	red	<a href="#">direct links</a>
Collar shape	round	<a href="#">➤ RAFI eCatalog</a>
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.	

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**RAFI GmbH & Co. KG**

Ravensburger Str. 128-134  
88276 Berg / Ravensburg  
Germany  
[www.rafi-group.com](http://www.rafi-group.com),  
[info.headquarters@rafi-group.com](mailto:info.headquarters@rafi-group.com)

Net weight	35.7 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
Minimum order quantity (MOQ)	10 pcs.
RoHS compliant	Yes
REACH compliant	Yes
Country of origin	HU

**> mounting diameters**

Outside dimension, length	29.8 mm
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**

Fixing	Threaded ring
Actuation function	latching
Operating force, max.	100 N
Threaded ring torque, max.	1.2 Nm
Resetting	by pulling

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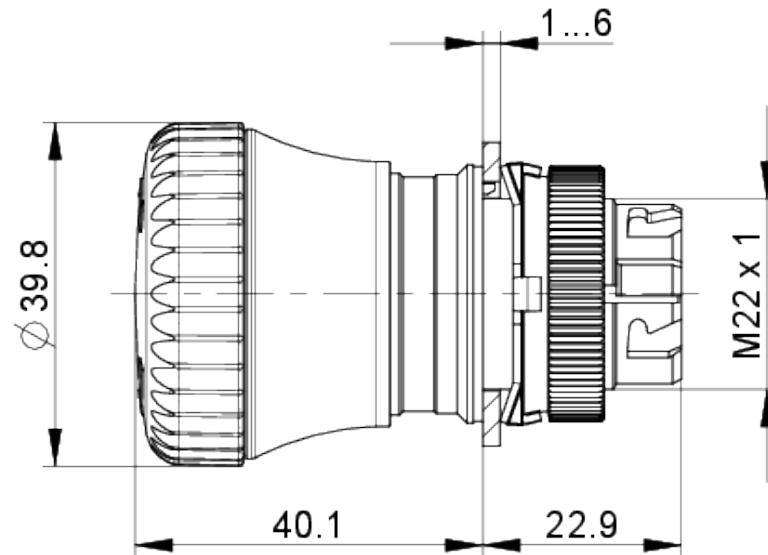
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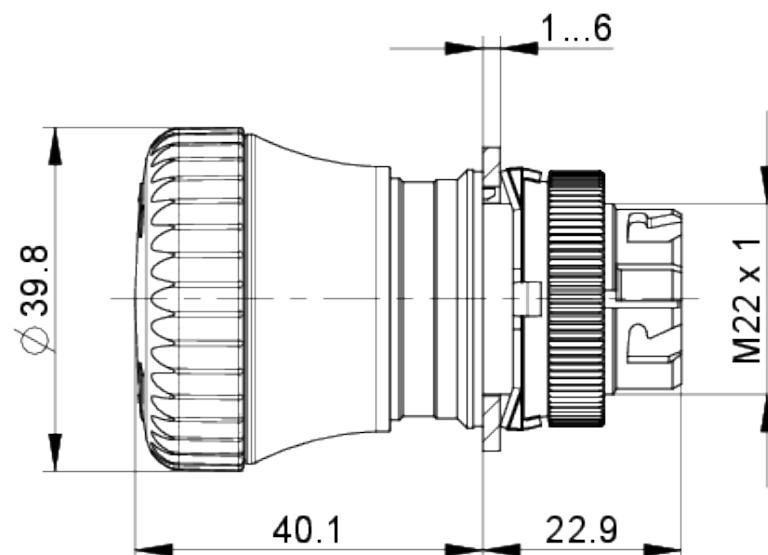
Ravensburger Str. 128-134  
88276 Berg / Ravensburg  
Germany  
www.rafi-group.com,  
info.headquarters@rafi-group.com

## drawings

### Dimensioned drawing



### Dimensioned drawing

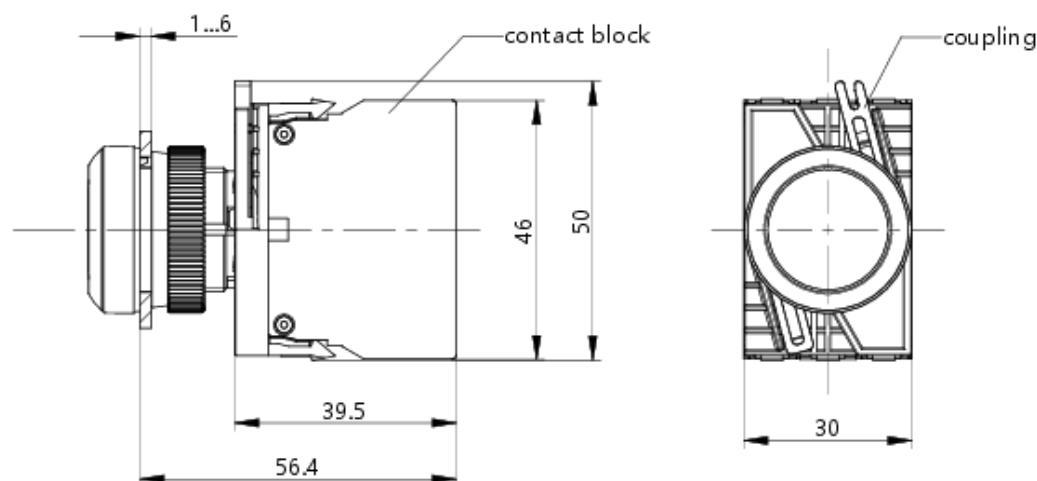
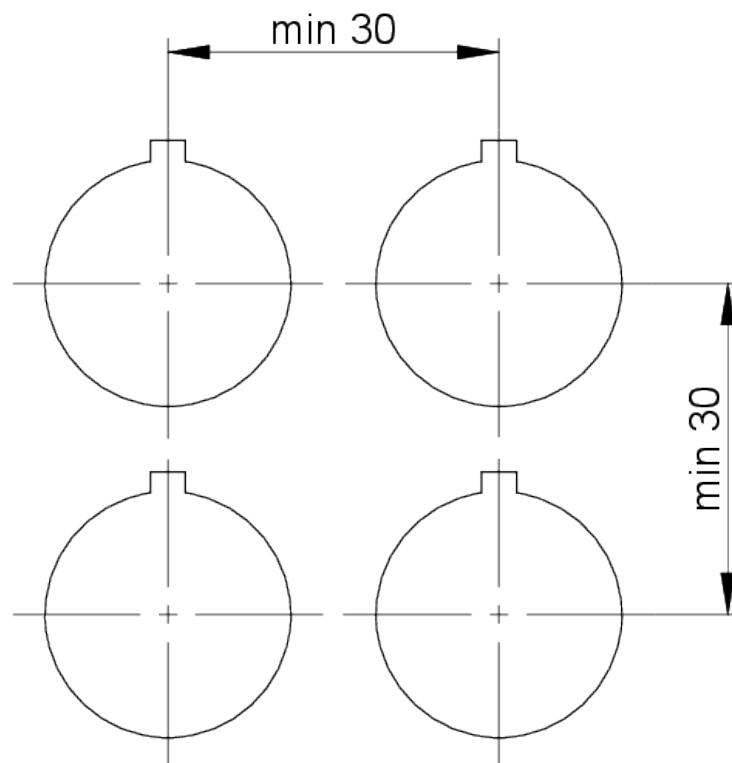


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Ravensburger Str. 128-134  
88276 Berg / Ravensburg  
Germany  
www.rafi-group.com,  
info.headquarters@rafi-group.com

**System drawing****front panel drawing**

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Ravensburger Str. 128-134  
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Germany  
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## mounting

RAFI

DEUTSCH (DE)	ENGLISH (EN)	FRANÇAIS (FR)
<b>Betriebsanleitung NOT-HALT-BEFEHLSGERÄTE</b>	<b>Operating Instructions EMERGENCY STOP Control Units</b>	<b>Mode d'emploi auxiliaires de commande d'ARRÊT D'URGENCE</b>

Baureihe  
RAFIX 16, RAFIX 22 FS\*, RAFIX 22 FSR, RAFIX 22 QRSeries  
RAFIX 16, RAFIX 22 FS\*, RAFIX 22 FSR, RAFIX 22 QRSerie  
RAFIX 16, RAFIX 22 FS\*, RAFIX 22 FSR, RAFIX 22 QR

**1. Sicherheitshinweise**

- Vor Inbetriebnahme bitte Betriebsanleitung sorgfältig lesen.
- Not-Halt-Befehlsgeräte erfüllen eine Personenschutz-Funktion. Unsachgemäßer Einbau, sadiwürige Anwendung oder Manipulationen können zu schweren Verletzungen von Personen führen.
- Not-Halt-Befehlsgeräte dürfen nicht umgangen, entfernt oder auf andere Weise unwirksam gemacht werden!
- Vor Beginn der Installation Anlage und Gerät spannungsfrei schalten!
- Vor Erst-Inbetriebnahme der Maschine oder Anlage Not-Halt-Befehlsgeräte durch Testbetätigung auf korrekte Montage und Funktion überprüfen.
- Not-Halt-Befehlsgeräte mit sichtbaren Beschädigungen sind unverzüglich auszutauschen.
- Not-Halt-Funktion darf nicht als Ersatz für Schutzmaßnahmen oder andere Sicherheitsfunktionen verwendet werden.
- Not-Halt-Funktion darf die Wirkungsweise von Schutzeinrichtungen oder von Einrichtungen mit anderen Sicherheitsfunktionen nicht beeinträchtigen.

## 1. Safety information

- Please read the operating manual carefully before commissioning.
- Emergency stop control components are there to protect personnel. Improper installation, improper use or manipulation can lead to serious injuries to persons!
- Emergency stop control components must not be bypassed, removed or otherwise rendered ineffective!
- Disconnect the system and device from the power supply before starting installation!
- Before commissioning the machine or system for the first time, check the emergency stop control component for correct installation and function by test activation.
- Emergency stop control components with visible damage must be replaced immediately.
- The emergency stop function must not be used as a substitute for protective measures or other safety functions.
- The emergency stop function must not impair the effectiveness of safety features or of devices with other safety functions.

## 1. Consignes de sécurité

- Lire la notice d'utilisation attentivement avant la mise en service.
- Les auxiliaires de commande d'arrêt d'urgence ont une fonction de protection des personnes. Un montage incorrect, une application ou des manipulations non conformes peuvent occasionner des graves blessures aux personnes !
- Les auxiliaires de commande d'arrêt d'urgence ne doivent pas être contournés, retirés ou rendus inefficaces de toute autre façon !
- Avant de commencer l'installation, mettre l'installation et l'appareil hors tension !
- Avant la première mise en service de la machine ou de l'installation, vérifier que l'auxiliaire de commande d'arrêt d'urgence est monté et fonctionne correctement.
- Les auxiliaires de commande d'arrêt d'urgence présentant des dommages visibles doivent être remplacés sans délai.
- La fonction d'arrêt d'urgence ne doit pas servir de substitut aux mesures de protection ou autres fonctions de sécurité.
- La fonction d'arrêt d'urgence ne doit pas entraîner l'efficacité des dispositifs de protection ou dispositifs assurant d'autres fonctions de sécurité.

## 2. Allgemeine Beschreibung und bestimmungsgemäß e

## 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 oder zu verringern.

Für die Inbetriebnahme, den Einsatz und technischen Überprüfungen gelten im speziellen folgende Vorschriften:

- Die Maschinenrichtlinie 2006/42/EG
- Die Sicherheitsvorschriften sowie
- Die Unfallverhütungsvorschriften / Sicherheitsregeln

Hersteller und Benutzer von Maschinen, an denen Not-Halt-Befehlsgeräte eingesetzt werden, tragen die Verantwortung für die Beauftragung der Inbetriebnahme, wie sie für die Einhaltung der für sie geltenden Sicherheitsvorschriften und -regeln. Für den Einbau und Betrieb von Not-Halt-Befehlsgeräten müssen zur bestimmungsgemäßen Verwendung folgende Anforderungen beachtet und eine Gefahrenbewertung durchgeführt werden:

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

## 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 Einbausversion oder in einem Gehäuse verbaut. Die Betätigung erfolgt durch Drücken, die Entriegelung erfolgt je nach Variante entweder durch:

- Drehbewegung nach rechts oder beider Richtungen (je nach Variante)

Ziehen entgegen der Betätigungsrichtung

## „Aktiv/inaktiv“-Varianten:

- „Aktiv“: beleuchtet, rot, Not-Halt-Funktion gegeben
- „Inaktiv“: unbelichtet, 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.

## 3. 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 pressing, 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

Types with a key lock:

- Unlocking is performed by turning the key to the right after actuating the emergency stop control component. The key must be removed in every actuated state and should only be in the actuator during unlocking. This helps to avoid injuries to the hands.

## 3. Description du produit

Structure : les auxiliaires de commande d'arrêt d'urgence sont une combinaison d'actionneurs avec un ou plusieurs éléments de commutation. 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

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

Produkt Product Produkt	Einbau Ø mm Mounting Ø mm Montage Ø mm	Betätigter 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	Ø 22.3 Ø 22.3	1.30.094.xxx/xxxx 9.30.094.xxx/xxxx	1.20.124.xxx/xxxx 1.20.125.xxx/xxxx 5.00.100.xxx/xxxx 9.20.124.xxx/xxxx 8.20.125.xxx/xxxx
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	1.20.126.xxx/xxxx 1.20.146.xxx/xxxx 9.20.126.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	

Tabelle 3.1 Weitere technische Daten sind dem eCatalog zu entnehmen: [ecatalog.rafi-group.com](http://ecatalog.rafi-group.com)  
Table 3.1 Further technical data can be found in the eCatalog: [ecatalog.rafi-group.com](http://ecatalog.rafi-group.com)  
Tableau 3.1 Vous trouverez d'autres données techniques dans le eCatalog : [ecatalog.rafi-group.com](http://ecatalog.rafi-group.com)

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Germany  
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[info.headquarters@rafi-group.com](mailto:info.headquarters@rafi-group.com)