RAFIX 16, emergency stop, round collar, conical, reset by rotating, Mushroom head red



fields of application

- Measurement-control-regulation
- Electrical engineering
- Mechanical and system engineering
- Industrial robots

special features

- Emergency stop for safety functions
- Override-proof in accordance with DIN EN ISO 13850 due to positively driven mechanical motion sequence
- Robust - also suitable for operation with gloves
- Close mounting of actuators possible, as wiring is axial from behind
- Degree of protection: IP 65 at the front
- Mounting diameter 16.2 mm
- Separate switching elements UNIVERSAL required
- Switching elements with silver contacts (max. 250 V / 6 A) or gold contacts (max. 35 V / 0.25 A)
- Connection types switching elements: screw connection, plug-in connection, PCB plug-in socket
- The switching elements are snapped on and can be removed again by turning.

description

RAFIX control devices are modular units consisting of several parts. In the RAFIX 16 family, they always consist of an actuating element and a switching element, or of an indicator lamp and a lamp socket. Actuating elements (such as pushbuttons or emergency stop actuators) have the specified tactility, reset and function only when assembled with the appropriate switching elements. For illuminated actuators, please use switching elements with lamp socket.

The mounting diameter is 16.2 mm according to the standard. The anti-rotation lug can be easily removed with a screwdriver if necessary.

technical data

general

Color of mushroom	red
Collar shape	round
Operating temperature, min.	-25 °C

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Operating temperature, max.	70 °C
Storage temperature, min.	-40 °C
Storage temperature, max.	85 °C
illuminated	No
Packaging	Box
Packaging unit	2 pcs.
net weight	14.5 g
Operating life	30,000 cycles
B10	39,000 cycles
B10d	78,000 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	24.95 mm
Outside dimension, width	24.95 mm
Outside dimension, height	48.2 mm
Mounting hole	16.2 mm
Mounting depth	44.7 mm
Installation height	29 mm
Collar dimension	ø 24,95 mm

mechanical data

Actuation function	latching
Resetting	by rotating
Fixing	Threaded ring
Threaded ring torque, max.	1.2 Nm

direct links

RAFI eCatalog

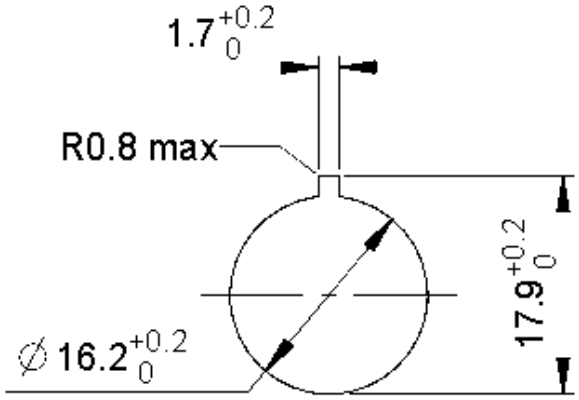
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drawings

Mounting hole drawing



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mounting



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

Betriebsanleitung Not-Halt-Befehlsgeräte	Operating Instructions EMERGENCY STOP Control Units	Mode d'emploi auxiliaires de commande d'ARRÊT D'URGENCE

(D) **1. Sicherheitshinweise**

- Vor Inbetriebnahme bitte Betriebsanleitung sorgfältig lesen.
- Not-Halt-Befehlsgeräte erfüllen eine Personenschutz-Funktion. Unsachgemäßer Einbau, sachwidrige 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-Befehlsgerät 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 Wirksamkeit von Schutzeinrichtungen oder von Einrichtungen mit anderen Sicherheitsfunktionen nicht beeinträchtigen.

(GB) **1. Safety instructions**

- 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 way!
- 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.
- Les auxiliaires de commande d'ARRÊT D'URGENCE remplissent une fonction de protection personnelle. Un montage inapproprié, une application contre-indiquée ou une manipulation peuvent causer des blessures corporelles graves!
- Il est interdit de ponter, d'enlever ou de rendre inopérants les auxiliaires de commande d'ARRÊT 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'auxiliaire de commande d'ARRÊT D'URGENCE quant 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 protection ou d'autres fonctions de sécurité.
- La fonction d'arrêt d'urgence ne peut pas entraver l'efficacité de dispositifs de sécurité ou de dispositifs possédant d'autres fonctions de sécurité

(D) **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 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 Beachtung der Betriebsanleitung, wie auch 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 13849-1:2015
- 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 responsible for ensuring that the operating instructions are observed and the applicable safety standards 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 ISO 13849-2:2012
- EN 60204-1/A1:2009

(F) **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 suivantes:

- 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 sont 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'ARRÊT 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

(D) **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": unbeleuchtet, transparent, keine Not-Halt Funktion.

(GB) **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.

(F) **3. Description de produit**

Structure: Les boutons-poussoirs d'ARRÊT D'URGENCE sont composés d'une combinaison d'actionneurs ou de plusieurs éléments de commutation. Les boutons-poussoirs d'ARRÊT 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": lit rouge, 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 Élément 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 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	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.

(GB) **Table 3.1** For additional technical data, please refer to the catalogue.

(F) **Tableau 3.1** Pour les autres caractéristiques techniques, voir catalogue.

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