

# RAFIX 22 FSR, emergency stop, round collar, metal mushroom head, reset by pulling, Mushroom head red



## fields of application

- > Measurement-control-regulation
- > Mechanical and system engineering
- > Agricultural and forestry machinery
- > Construction machinery

## special features

- > Emergency stop in classic design
- Small installation depth 9.2 mm (PCB) or 27 mm (QC)
- Connection types: printed circuit board connection (PCB) or flat quick-connect terminals (QC)
- PCB switching elements minimize assembly errors
- Switching elements with silver contacts (max. 250 V/4 A) or gold contacts (max. 35 V/100 mA)
- > Protection class: at least IP 65 front side

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## 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.

The illuminated version is illuminated through a central round window.

## technical data

>

>	general	
	Disassembly possible	no
	Color of mushroom	red
	Property of bezel / mushroom	opaque

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## 1.30.283.611/0300

	Collar shape	round
	Operating temperature, min.	-40 °C
	Storage temperature, min.	-40 °C
	Operating temperature, max.	85 °C
	Storage temperature, max.	85 °C
	illuminated	No
	Packaging	Box
	Packaging unit	2 pcs.
	net weight	2 pcs. 15.7 g
	Operating life	10,000 cycles
	B10	13,000 cycles
	B10d	
		26,000 cycles
	Degree of protection, front side, according to DIN EN 60529	IP65 IP67
		IP69
	Degree of protection, front side,	IPx9K
	according to ISO 20653	
	UL Enclosure Type Rating front	type 1
	side	type 4X
	Environment resistance	IEC 60068-2-14
		IEC 60068-2-30
		IEC 60068-2-33
		IEC 60068-2-78
	Salt-spray resistance according to	IEC 60068-2-11
	standard	
	MOQ order	2 pcs.
	RoHS compliant	Yes
	REACH compliant	Yes
>	mounting diameters	
	Mounting hole	22.3 mm
	Mounting depth	9.2 mm
	Installation height	41.1 mm
	Grid, min.	40 x 40 mm
	Outside dimension, length	31.3 mm
	Outside dimension, width	31.3 mm
	Collar dimension	ø 31,3 mm
>	mechanical data	
	Actuation function	latching
	Operating force, max.	100 N
	Resistance to force on the side	750 N
	Resetting	by pulling
	Fixing	Threaded ring
	Threaded ring torque, max.	2 Nm

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direct links

RAFI eCatalog



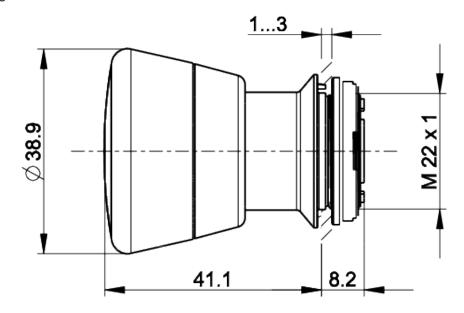
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## 1.30.283.611/0300

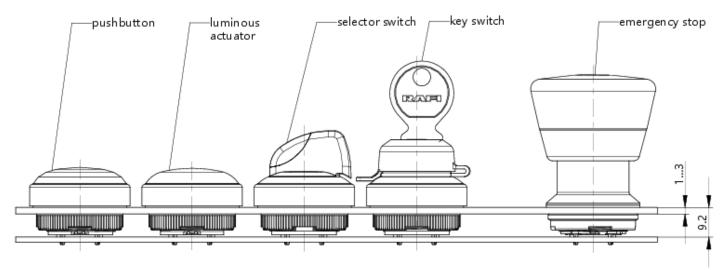


## drawings

## **Dimensioned drawing**



## System drawing



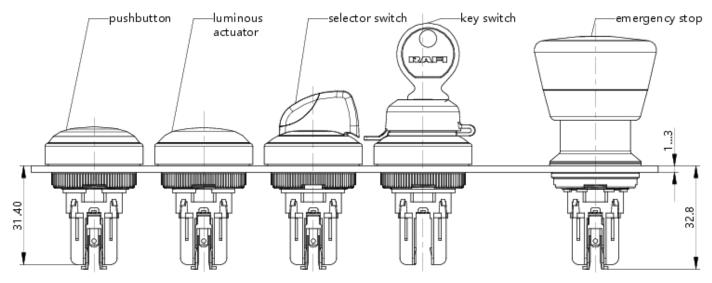
The information in this data sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which my change due to further product enhancements. The technical data, illustrations and other information about our products 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, 2022 **page**: 3/5

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#### System drawing



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## 1.30.283.611/0300



## mounting

RAFIX 16, RA	FIX 22 FS <sup>+</sup> , R	AFIX 22 FS	R, RAFIX	( 22 QR	
Contr      Sicherheitshinweise      Vor Inbetriebnahme bitte Betriebsanleitung sorgfältig lesen.     Not-Halt-Befehlsgeräte erfüllen eine Personenschutz-Funktion. Unsachgemäßer Einbau, sach- widrige 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 Beginn der Installation Anlage und Gerät spannungsfrei schalten!     Vor Beginn der Installation Anlage und Gerät spannungsfrei schalten!     Vor Beginn der Installation Anlage und Gerät spannungsfrei schalten!     Vor Halt-Befehlsgeräte mit sichtbaren Beschädigungen sind unverzüglich auszutauschen.     Not-Halt-Befehlsgeräte mit sichtbaren Beschädigungen sind unverzüglich auszutauschen.     Not-Halt-Funktion darf die Wirksamkeit von Schutzreinrichtungen oder von Einrichtungen mit     anderen Sicherheitsfunktionen nicht beeinträchtigen.     Stafty instructions     Please read the operating instructions carefully prior to use.     EMERGE/NCY STOP control units are designed to protect persons. Inappropriate installation,		ions EMERGENCY STOP trol Units Mode d'emploi auxiliaires de com d'ARRÊT D'URGENCE			
		<ul> <li>véhicules et les installations, à les amener dans un état de sécurité fiable pour éviter ou diminuer les risques de dommages corporeils et de dégâts matériels.</li> <li>Pour la mise en service, l'utilisation et les contrôles techniques, il faut respecter les prescriptions suivantes:         <ul> <li>La directive sur les machines selon la norme 2006/42/EG</li> <li>Les règlements de sécurité ainsi que</li> <li>Les instructions sur la prévention des accidents /règlements de sécurité</li> <li>C'est aux fabricants et utilisateurs de machines où des auxiliaires de commande d'ARRÉT D'URGENCE sont utilisés, qu'incombe la responsabilité du respect du mode d'emploi ainsi que des prescriptions et règlements de sécurité en vigueur.</li> </ul> </li> <li>Pour l'instalation et l'exploitation de dispositif d'ARRÉT 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:         <ul> <li>EN ISO 13849-12015</li> <li>EN ISO 13849-12015</li> <li>EN ISO 13849-2:2012</li> <li>EN ISO 13849-2:2012</li></ul></li></ul>			
Consignes de sécurité     Il faut soigneusement line le mode d'emploi avant la mise en service.     Les auxiliaires de commande d'ARRÉT D'URGENCE remplissent une f     sonnelle. Un montage inapproprié, une application contre-indiquée ou     causer des blessures corporelles graves!     Il est interdit de ponter, d'enlever ou de rendre inopérants les auxiliaire     D'URGENCE!     Avant d'entamer l'installation il faut mettre l'installation et l'appareil hc     Avant d'entamer l'installation il faut mettre l'installation et l'appareil hc     Avant d'ARRÉT D'URGENCE quant au     montage inappropriet. Un montage inappropriet de la machine ou de l'installation     commande d'ARRÉT D'URGENCE quant au     montage na montage et application de la d'artet d'urgence ne peut pas être utilisée en remplacement     tion ou d'autres fonctions de sécurité.     La fonction d'arrét d'urgence ne peut pas entraver l'efficacité de disp     dispositifs possédent d'autres fonctions de sécurité     Algemeine Beschreibung und bestimmungsgemäße Verwendu     Montavel d'entamische. Schaltgeräte zum Sr     lienen der schnel en Abschaltung um Maschinen, Fahrzeuge und Anlag     tand zu bringen, um Gefahren und Schäden für Mensch und Maschi	une manipulation peuvent s de commande d'ARRÊT ors tension! n, contrôler l'auxiliaire de nement corrects. Jommages visibles sont à int de mesures de protec- positifs de sécurité ou de ng chutz von Personen. Sie gen in einen sicheren Zu-	3. Product description     Design: An EMERGENCY STOP button is an assembly of actuator combined with one or more     contact blocks. EMERGENCY STOP button is an assembly of actuator combined with one or more     contact blocks. EMERGENCY STOP button is an assembly of actuator combined with one or more     contact blocks. EMERGENCY STOP button is an assembly of actuator combined with one or more     contact blocks. EMERGENCY STOP button is an assembly of actuator combined with one or more     contact blocks. EMERGENCY STOP button is an assembly of actuator combined with one or more     contact blocks. EMERGENCY STOP button is an assembly of actuator combined with one or more     installed in a separate housing.     "Attivillimitated red, Emergency Stop function given; "Inaktiv": not     illuminated, transparent, no Emergency Stop function     "Attivillinaktiv"-Xirainets' rAktiv": Illuminated red, Emergency Stop function given; "Inaktiv": not     illuminated, transparent, no Emergency Stop function.      Or Source:     Subscription 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 installed actua un bohiter.     L'actionnement s'effectue par appui sur ces derniers. Selon la variante, le déversuillage 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": litrouge, d'arrêt d'urgence fonction donné; "Inaktiv": pas lit,         transparent, pas de d'arrêt d'urgence fonction.			
für die Inbetriebnahme, den Einsatz und technischen Überprüfungen ge le Vorschriften:	elten im speziellen folgen-	Product Produit	Mounting Ø mm Montage Ø mm	Actuator Actionneur	Elément de commutation
Die Maschinenrichtlinie 2006/42/EG Die Sicherheitsvorschriften sowie Die Unfallwachtitungevorschriften / Sicherheiterspale		RAFIX 16	Ø 16,2	1.30.074.xxx/xxxx 9.30.074.xxx/xxxx 1.30.094.xxx/xxxx	1.20.123.xxx/xxxx 9.20.123.xxx/xxxx
Die Unfallverhütungsvorschriften / Sicherheitsregeln dersteller und Benutzer von Maschinen, an denen Not-Halt-Befehlsgerät en die Verantwortung für die Beachtung der Betriebsanleitung, wie au ür sie geltenden Sicherheitsvorschriften und -regeln. Tür den Einbau und Betrieb von Not-Halt-Befehlsgeräten müssen zu derdung folgende Anforderungen beachtet und eine Gefahren	uch für die Einhaltung der ir bestimmungsgemäßen	RAFIX 16 F	Ø 22,3 Ø 22,3	9.30.094.xxx/xxxx 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
verden: EN ISO 13849-1:2015 - EN ISO 13850:2015 EN ISO 13849-2:2012 - EN 60204-1/A1:2009		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
C. General description and intended use MERGENCY STOP control units are electromechanical switching dev resons. They are used for instant disconnection to achieve a safe statu		RAFIX 22 FS <sup>+</sup>	Ø 22,3	1.30.273.xxx/xxxx 9.30.273.xxx/xxxx	1.20.126.xxx/xxxx 9.20.126.xxx/xxxx
ersons. In ey are used for instant disconnection to achieve a safe statu: ther equipment in order to avoid or reduce risks or damage to man and "he following standards and regulations apply to their start-up, use a vithout limitation: Machinery Directive 2006/42/EC Safety standards	machine.	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
Accident prevention regulations / rules for safety Anufacturers and users of machines provided with EMERGENCY STOI bile for ensuring that the operating instructions are observed and the ap nd rules compiled with. For the installation and operation of EMERGENCY STOP control devices set, the following requirements must be observed and a risk assessment EN ISO 13849-12015 - EN ISO 13850-2015 EN ISO 13849-2:2012 - EN 60204-1/A1:2009	oplicable safety standards in line with the intended	B Table 3.1 For ad	ditional technical o	aten sind dem Katalog zu Jata, please refer to the « éristiques techniques, w	catalogue.

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