

RAFIX 22 FS⁺, emergency stop Plus 1, reset by pulling, Mushroom head red



fields of application

- > Measurement-control-regulation
- > Electrical engineering
- > Mechanical and system engineering
- > Vehicle construction
- > Handheld terminals
- Industrial robots

special features

- Emergency stop in classic design for switching element with 2 Ö and 1 S contact
- For emergency stop and additional signalling function
- Low installation depth 9.2 mm (PCB) or 27 mm (QC)
- Connection types: printed circuit board connection (PCB) or plug-in connection (QC)
- PCB switching elements minimize mounting errors
- Switching elements with silver contacts (max. 250 V/4 A) or gold contacts (max. 35 V/100 mA)
- > Degree of protection: IP 65 at the front



Downloaded from Arrow.com.

RAFI GmbH & Co. KG

1.30.273.602/0300



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.

This special emergency stop button not only has two redundant normally-closed contacts for the emergency stop function, but also a signaling contact. Unique: 3 contacts with the compact dimensions (mounting depth 9.2 or 27 mm) 2 normally-closed contacts Redundancy is increasingly required for safety applications in machine and control construction and helps to minimize the probability of a component failing. 1 signaling contact

The signaling contact is a normally-open contact and can be used, for example, to send information to a surveillance monitor or security master. The safety control can then initiate controlled shut-down, depending on the location and type of hazard. The signaling contact only provides pulses, and is not intended to be a permanent contact. The emergency stop button meets current standards. Thanks to a forcibly actuated mechanical motion sequence, it is dupe-proof in accordance with DIN EN ISO 13850. RAFIX 22 FS+ emergency stop "Plus 1" consists of a special emergency stop button and a corresponding emergency stop switching element, which can either be mounted directly (quick-connect terminal) or positioned on a PCB (THT terminal).

Note: Only use with emergency stop "Plus 1" switching element.

technical data

> general		
Disassembly possible	no	direct links
Color of mushroom	red	> RAFI eCatalog
Property of bezel / mushroom	opaque	
Collar shape	round	
Operating temperature, min.	-25 °C	
Storage temperature, min.	-40 °C	
Operating temperature, max.	70 °C	
Storage temperature, max.	80 °C	
illuminated	No	
Packaging	Box	
Packaging unit	2 pcs.	
net weight	17.3 g	
Operating life	50,000 cycles	
B10	65,000 cycles	
B10d	130,000 cycles	
Degree of protection, front side, according to DIN EN 60529	IP65	
Degree of protection, front side, according to ISO 20653	IPx9K	
UL Enclosure Type Rating front	type 1	
side	type 4X	
Environment resistance	IEC 60068-2-14	
	IEC 60068-2-30	

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**: Nov 25, 2022 **page**: 2/7

RAFI GmbH & Co. KG

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

Downloaded from Arrow.com.





		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	33.2 mm
	Outside dimension, length	29.8 mm
	Outside dimension, width	29.8 mm
	Outside dimension, height	42.1 mm
	Collar dimension	ø 29,8 mm
>	mechanical data	
	Actuation function	latching
	Operating force, max.	100 N
	Resetting	by pulling
	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**: Nov 25, 2022 **page**: 3/7

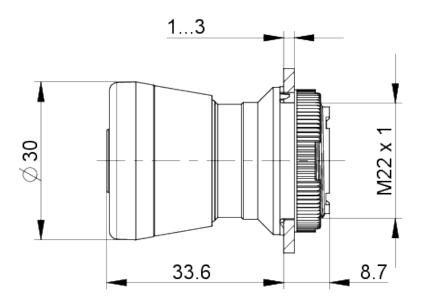
RAFI GmbH & Co. KG



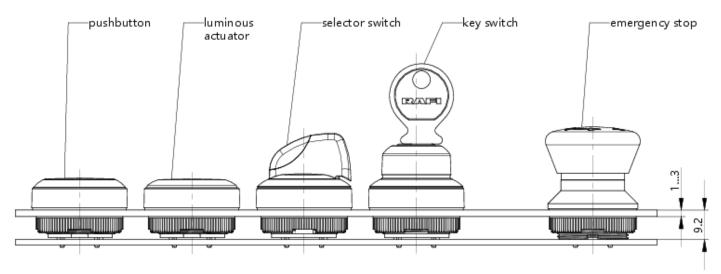


drawings

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**: Nov 25, 2022 **page**: 4/7

RAFI GmbH & Co. KG

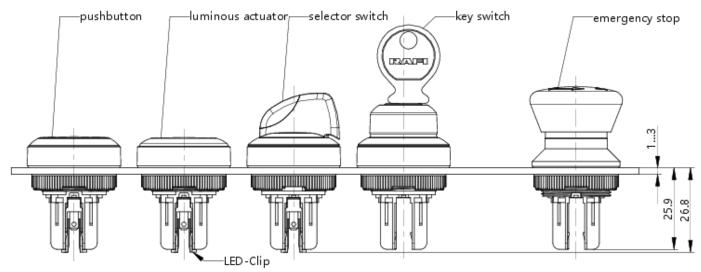
Ravensburger Str. 128-134 88276 Berg / Ravensburg Germany www.rafi-group.com, info.headquarters@rafi-group.com

Downloaded from Arrow.com.

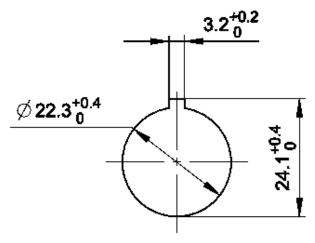
1.30.273.602/0300



System drawing



Mounting hole drawing



acc. to IEC 60947-5-1

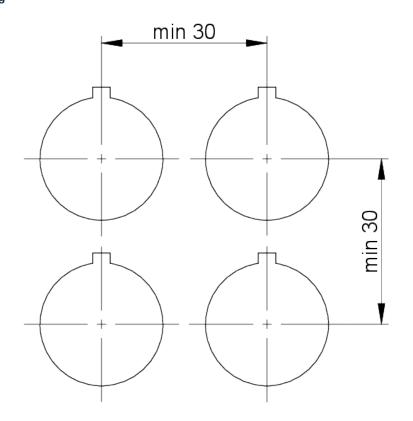
The information in this data sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which my change due to further product enhancements. The technical data, illustrations and other information about our products 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**: Nov 25, 2022 **page**: 5/7

RAFI GmbH & Co. KG





front panel 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**: Nov 25, 2022 **page**: 6/7

RAFI GmbH & Co. KG

1.30.273.602/0300



mounting

RAFIX 16, RAFIX 22 FS ⁺ , RAFIX 22 FSR, RAFIX 22 QR							
Betriebsanleitung Not-Halt-Befehlsgeräte		tions EMERGENCY STOP ntrol Units		Mode d'emploi auxiliaires de commande d'ARRÊT D'URGENCE			
		C 2. Description générale et application conforme aux prescriptions Les auxiliaires de calmenta d'ARRÉT D'URGENCE sont des appareils de commutation élec- tromécaniques 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 corpreise te de dégits 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'ARRÉT D'URGENCE sont utilise, qu'incombe la responsabilité du respect du mode d'emploi ainsi que des prescriptions et règlements de sécurité a foigueur. Pour l'instalation et l'exploitation de dispositifs 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: EN ISO 13849-12015 - EN ISO 13850:2015 EN ISO 13849-2:2012 - EN 60204-1/A1:2009 3 Produktbeschreibung Autour. Die Not-Halt-Befehlsgeräte bestehen aus einer Kombination von Betätigern mit einem oder mehrenn 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: Drebewegung nach links oder nach rechts Ziehen entgegen der Betätigungsrichtung "Arktiv/Nativi"-Varianten: "Aktiv": beleuchtet, rot, Not-Halt Funktion gegeben; "Inaktiv": unbe-					
 Consignes de sécurité Il faut solgneusement lire le mode d'emploi avant la mise en service. Les auxiliaires de commande d'ARRÊT 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 he Avant d'entamer l'installation il faut mettre l'installation et l'appareil he e Avant d'entamer l'Installation il faut mettre l'installation et l'appareil he e avant de d'ARRÊT D'URGENCE quant au montage et à un fonction commande d'ARRÊT D'URGENCE présentant des c remplacer sans tarder. La fonction d'arrêt d'urgence ne peut pas être utilisée en remplaceme tion ou d'autres fonctions de sécurité. La fonction d'arrêt d'urgence ne peut pas entraver l'efficacité de disp dispositifs possédant d'autres fonctions de sécurité Calignetine Beschreibung und bestimmungsgemäße Verwendu Not-Hait-Befehisgrâte sind elektromechanische Schaltgeräte zum St dienen der schnelen Abschlaung um Maschinen, Fahrzeuge und Anlai 	une manipulation peuvent s de commande d'ARRÊT ors tension! n, contrôler l'auxiliaire de nement corrects. Jommages visibles sont à ent de mesures de protec- positifs de sécurité ou de ng chutz von Personen. Sie	 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. The 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 installes 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 a farction soit vers la gauche, soit à droite Soit en trant dans la direction opposée de la direction donomement "Aktiv/Inaktiv": pas lit, transparent, pas de d'arrêt d'urgence fonction. 					
stand zu bringen, um Gefahren und Schäden für Mensch und Maschi verringern. Für die Inbetriebnahme, den Einsatz und technischen Überprüfungen ge		Produkt Product Produit	Einbau Ø mm Mounting Ø mm Montage Ø mm	Betätiger Actuator Actionneur	Schaltelement Contact block Elément de commutation		
de Vorschriften: - Die Maschinenrichtlinie 2006/42/EG - Die Sicherheitsvorschriften sowie		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		
 Die Unfallverh ütungsvorschriften / Sicherheitsregeln Hersteller und Benutzer von Maschinen, an denen Not-Halt-Befehlsger ä gen die Verantwortung f ür die Beachtung der Betriebsanleitung, wie au 		RAFIX 16 F	□23,1 Ø22,3	1.30.094.xxx/xxxx 9.30.094.xxx/xxxx	5.00.100.xxx/xxxx		
für sie geltenden Sicherheitsvorschriften und regeln. Für den Einbau und Betrieb von Not-Halt-Befehlsgeräten müssen zu Verwendung folgende Anforderungen beachtet und eine Gefahren	r bestimmungsgemäßen	RAFIX 22 QR	Ø 22,3	1.30.243.xxx/xxxx 9.30.243.xxx/xxxx	9.20.124.xxx/xxxx 1.20.125.xxx/xxxx 9.20.124.xxx/xxxx 9.20.125.xxx/xxxx		
werden: 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		
2. General description and intended use EMERGENCY STOP control units are electromechanical switching dev persons. They are used for instant disconnection to achieve a safe statu.		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		
persons. They are used for instant disconnection to achieve a safe statu: other equipment in order to avoid or reducer insks or damage to man and The following standards and regulations apply to their start-up, use a without 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 Manufacturers and users of machines provided with EMERGENCY STOI Sible for ensuring that the operating instructions are observed and the ag and rules compiled with. For the installation and operation of EMERGENCY STOP For the installation and operation of EMERGENCY STOP control devices use, the following requirements must be observed and a risk assessment ENISO 13849-1:2015 - ENISO 13849-2:2012 - ENISO 13849-2:2012	oplicable safety standards						

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:** Nov 25, 2022 **page**: 7/7

Downloaded from Arrow.com.

RAFI GmbH & Co. KG