

> Round mounting hole, diameter 16.2 mm

> Terminal: male quick-connect terminal 2.8

> Water jet protection class IP 65 and IP 67

Solderability: lead-free soldering with maximum 280°C for 5 seconds

special features

x 0.5 mm

on front

> Mounting depth: 18 mm

## LUMOTAST 16, emergency stop button, 1 NC, Silver, Flat quickconnect terminal 2.8 x 0.5 tin-plated, reset by rotating, arrows red



### fields of application

- > Measurement-control-regulation
- > Electrical engineering
- > Mechanical and system engineering
- > Signalling systems
- > Handheld terminals
- > Industrial robots
- Model construction

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## description

The LUMOTAST 16 emergency stop elements are equipped with up to 3 contacts. This means that, for example, 2 redundant contacts can be earmarked for safety applications, while a signaling contact triggers the position sensing. An additional safety factor for your application.

### technical data

general		
Color of mushroom	red	direct links
Legending color	red	> RAFI eCatalog
Collar color	yellow	
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	10 pcs.	
net weight	12.8 g	
Operating life	30,000 cycles	
B10	50,000 cycles	
B10d	100,000 cycles	
Degree of protection, front side,	IP65	
according to DIN EN 60529	IP67	
UL Enclosure Type Rating front	type 1	
side		
Impact resistance IK	05 side	
	05 frontal	
MOQ order	10 pcs.	

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# 1.15.213.001/0000



	Pollution degree acc. to DIN EN	Pollution degree 2
	61010-1	-
	RoHS compliant	Yes
	REACH compliant	Yes
>	mounting diameters	
	Outside dimension, length	29.6 mm
	Outside dimension, width	29.6 mm
	Outside dimension, height	40.6 mm
	Mounting hole	16.2 mm
	Mounting depth	18 mm
	Installation height	22.6 mm
>	mechanical data	
	Actuation function	latching
	Contact function	1 NC
	Contact material	Silver
	Resetting	by rotating
	Fixing	Threaded ring
	Solderability	Yes
	Threaded ring torque, max.	0.8 Nm
	Terminal on the rear	Flat quick-connect terminal 2.8 x 0.5 tin-plated
>	electrical data	
	Rated insulation voltage	250 V
	Rated voltage, min.	10 V
	Rated voltage, max. acc. to UL 60947	35 V / 2 A (AC / DC)
	Voltage type	AC / DC
	Rated operating voltage	0.01-250 V
	Rated current, min.	0.015 A
	Rated power, max.	250 W
	Category of use AC-15 / B300	240 V / 1,5 A (IEC 60947)
		35 V / 5 A (IEC 60947)
	Category of use DC-13 / Q300	35 V / 2 A (IEC60947)
		250 V / 0,27 A (IEC)

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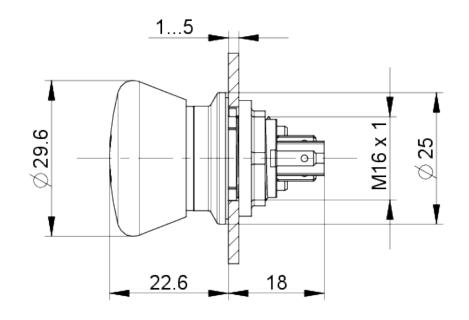
### technical data sheet

## 1.15.213.001/0000

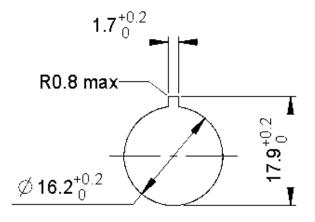


### drawings

### **Dimensioned drawing**



### Mounting hole drawing



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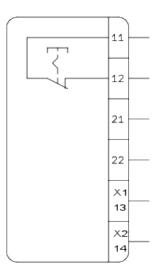
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### Schematic diagram



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### technical data sheet 1.15.213.001/0000



## mounting

### LUMOTAST 16, LUMOTAST 22, LUMOTAST 25, RAMO 22, RAMO 30

Betriebsanleitung Not-Halt-Befehlsgeräte

(Original)

#### **Operating Instructions EMERGENCY STOP** Mode d'emploi auxiliaires de commande d'ARRÊT D'URGENCE (Traduction original) Control Units (Translation of the source text)

### D 1. Sicherheitshinweise

 $\Lambda$ 

- 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 Sicherheitsfunk-
- tionen verwendet werden.
- Not-Halt-Funktion darf die Wirksamkeit von Schutzreinrichtungen oder von Einrichtungen mit anderen Sicherheitsfunktionen nicht beeinträchtigen.
- (GB) 1. Safety instructions

#### se read the operating instructions carefully prior to use

- EMERGENCY STOP control units are designed to protect persons. Inappropriate installation, (D) 3. Produktbeschreibung 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. A 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

- La faut solgneusement 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'ARRÉT 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-
- 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 Zu-stand 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 fo de Vorschriften:

- Die Maschinenrichtlinie 2006/42/EG
- Die Sicherheitsvorschriften sowie Die Unfallverhütungsvorschriften / Sicherheitsregeln
- Hersteller und Benutzer von Maschinen, an denen Not-Halt-Befehlsgeräte eingesetzt werden, tra gen 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

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

#### (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 resp sible 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 auxiliares de commande d'ARRÈT 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 Vancues et les instantions, le les aniente dans un et le service d'autorne nobe pour entre d'autorne de les risques de annanges corporels et de dégâts matérielse. Pour la misie 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

- 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 /ariante entweder durch: Drehbewegung in beide Richtungen nach links oder nach rechts
- Ziehen entgegen der Bettigungsrichtung
  "Aktiv/Inaktiv"-Varianten: "Aktiv": beleuchtet, rot, Not-Halt Funktion gegeben; "Inaktiv": unbe-leuchtet, 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 in either direction

Pulling against the direction of operation

"Aktiv/laktiv"-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 combinaisor 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 dans les deux directions, 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 Elément de commutation
LUMOTAST 16	Ø 16,2	115      213      001/0000      115      121      030000        115      213      000000      115      121      0400000        115      213      000000      115      121      0300000      115      121      0300000      115      121      0300000      115      121      0300000      115      121      0300000      115      121      0300000      115      121      0300000      115      121      0300000      115      121      0300000      115      121      0300000      115      121      0300000      115      121      0300000      115      121      0300000      115      121      03100000      115      121      03100000      115      121      03100000      115      121      03100000      115      121      03100000      115      121      03100000      115      121      03100000      115      121      03100000      115      121      03100000      115      121      03100000      115      121      031000000      115      1310100000<	integriert / incl.
LUMOTAST 22	Ø 22,3	1.15.105.002/0000 1.15.105.032/0000 1.15.105.012/0000 1.15.105.112/0000 1.15.105.022/0000	integriert / incl.
LUMOTAST 25	Ø 16,2	1.15.154.006/0301 1.15.154.016/0301	integriert / incl.
RAMO 22	Ø 22,3	1.10.031.001/0000 1.10.031.004/0330 1.10.031.022/0330 1.10.031.022/0330	integriert / incl.
RAMO 30	Ø 30,3	1.11.031.001/0000 1.11.031.004/0330 1.11.031.022/0330 1.11.031.101/0000	integriert / incl.

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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		Ø 16,2	1.15.213.014/0000	1.15.213.312/0000
	LUMOTAST 16		1.15.213.051/0000	1.15.213.313/0000
	LUMUTAST 16		1.15.213.052/0000	1.15.213.314/0000
			1.15.213.053/0000	1.15.213.401/0000
			1.15.213.054/0000	1.15.213.402/0000
			1.15.213.061/0000	1.15.213.403/0000
			1.15.213.062/0000	1.15.213.404/0000