

Arret d'Urgence à Câble BASIC LINE 603x



Sold separately as accessory



TeleMetrix



Main features

- □Metal or plastic housing, from one to three• conduit entries
- □ Protection degree IP67•
- □ In compliance with EN ISO 13850•
- □7 contact blocks available•
- □Versions with vertical or horizontal actuation•
- □Versions with assembled M12 connector•
- □Versions with gold-plated silver contacts•

Quality marks:



IMQ approval: UL approval: CCC approval: EAC approval: EG605 E131787 2020970305002282 RU C-IT.YT03.B.00035/19

Technical data

Housing

Housing FP series housing made of glass fibre reinforced shock-proof and with double insulation: FD, FL and FC series: metal housing, baked po FD, FP, FC series: one threaded conduit entry: FL series: three threaded conduit entries: Protection degree:	wder coating.
General data	SIL 3 acc. to EN 62061
SIL (SIL CL) up to:	PL e acc to EN ISO 13849-1
Performance Level (PL) up to:	PL e acc. to EN ISO 13849-1
Safety parameters:	
B _{10D} :	2,000,000 for NC contacts
Mission time:	20 years
Ambient temperature:	-25°C +80°C (standard)
	-40°C +80°C (T6 option)
Max. actuation frequency:	1 cycle / 6 s
Mechanical endurance:	1 million operating cycles
Max. actuation speed:	0.5 m/s
Min. actuation speed:	1 mm/s
Tightening torques for installation:	see page 379
Wire cross-sections and	
wire stripping lengths:	see page 399

In compliance with standards:

IEC 60947-5-1, IEC 60947-5-5, IEC 60947-1, IEC 60204-1, EN ISO 14119, EN ISO 12100, IEC 60529, EN ISO 13850, EN 418, EN IEC 63000, UL 508, CSA 22.2 No.14. Approvals:

EN 60947-5-1, UL 508, CSA 22.2 No.14, GB/T14048.5

Compliance with the requirements of:

Machinery Directive 2006/42/EC, EMC Directive 2014/30/EU, RoHS Directive 2011/65/ EU.

Positive contact opening in conformity with standards: IEC 60947-5-1, EN 60947-5-1.

Electrical data				Utilizati	on categ	ory	
		Thermal current (Լր): Rated insulation voltage (Ų):	10 A 500 Vac 600 Vdc 400 Vac 500 Vdc(contact blocks 20, 21, 22, 33, 34)	Alternating current: AC15 (50÷60 Hz)			
:	without	Rated impulse withstand voltage $(U_{_{imp}})$:	34) 6 kV 4 kV (contact blocks 20, 21, 22, 33, 34)	U (V) I (A) Direct cu	250 6 Irrent: DC	400 4 :13	500 1
	S O	Conditional short circuit current: Protection against short circuits: Pollution degree:	1000 A acc. to EN 60947-5-1 type aM fuse 10 A 500 V 3	U _e (V) I _e (A)	24 3	125 0.55	250 0.3
ć	<u>မ</u>			Alternating current: AC15 (50÷60 Hz)			
	nne -po	Thermal current (l _{th}):	4 A	$U_{e}(V)$	24	120	250
	M12 connec- 4 and 5-pole	Rated insulation voltage (U): Protection against short circuits:	250 Vac 300 Vdc type gG fuse 4 A 500 V	I _e (A) 4 4 4 Direct current: DC13			4
	with M12 tor, 4 and	Pollution degree:	3	U _e (V)	24	125	250
	to			I _e (A)	3	0.55	0.3
		Thermel surrent (L):	2 A	Alternating current: AC15 (50÷60 Hz)			
	112 con- r, 8-pole	Thermal current (Լր)։ Rated insulation voltage (Ц)։	2 A 30 Vac 36 Vdc	U _e (V)	24		
		Protection against short circuits:	type gG fuse 2 A 500 V	I _e (A) Direct ci	2 Irrent: DC	12	
	with M12 nector, 8-	Pollution degree:	3	U _e (V)	24	/10	
	in Me	5		$I_{e}(A)$	2		

Description



These rope-operated safety switches are installed on machines or conveyor belts and allow the machine to be brought to an emergency stop from any point and with any pull on the rope. This means significant cost savings for medium and large machines, since multiple emergency-stop buttons can be replaced with a single switch. They are equipped with a self-control function that constantly checks the correct function and signals a possible loosening or breaking of the rope through the opening of the contacts. These safety switches keep the contacts open after activation until the reset is performed, even if the rope is released.

Head with variable orientation



For all switches, the head can be adjusted in 90° steps after removing the four fastening screws.

Extended temperature range

These devices are also available in a special version suitable for an ambient operating temperature range from -40°C up to +80°C.

All switches are provided

with a green ring that shows the area of the correct

tightening of the rope. The installer has only to tighten

the rope until the black indicator will be in the middle of the green area. With this setting, the switch can be reset

by pulling the blue knob to

close the electrical safety

They can therefore be used for applications in cold stores, sterilisers and other equipment with low temperature environments. The special materials used to produce these versions retain their characteristics even under these conditions, thereby expanding the installation possibilities.

Indicator for rope adjustment



contacts.

If the tension (or loosening) on the rope is so high that the black indicator exits the green area, the electrical safety contacts will open and the reset device will trigger.

Features approved by IMQ	
Rated insulation voltage (Ui):	500 Vac 400 Vac (for contact blocks 2, 11, 12, 20, 21, 22, 28, 29, 30, 33, 34, 37)
Conventional free air thermal current (Ith): Protection against short circuits: Rated impulse withstand voltage (U _{imp}):	10 A type aM fuse 10 A 500 V 6 kV
mp	4 kV (for contact blocks 20, 21, 22, 28, 29, 30, 33, 34)
Protection degree of the housing: MV terminals (screw terminals)	IP67
Pollution degree: Utilization category: Operating voltage (Ue): Operating current (Ie):	3 AC15 400 Vac (50 Hz) 3 A
Forma of the contact elements 7a, 7a, 7a, V	

Forms of the contact element: Za, Za+Za, X+X, Zb, Y+Y, Y+Y+X, Y+Y+Y, Y+X+X, Y, X. Positive opening of contacts on contact blocks 5, 6, 7, 8, 9, 11, 13, 14, 16, 17, 18, 19, 20, 21, 22, 28, 29, 30, 33, 34, 37, 38, 39, 66.

In compliance with standards: EN 60947-1, EN 60947-5-1, fundamental requirements of the Low Voltage Directive 2014/35/EU.

Laser engraving



All devices are marked using a dedicated indelible laser system. These engravings are therefore suitable for extreme environments too. Thanks to this system that does not use labels, the loss of plate data is prevented and a greater resistance of the marking is achieved over time.

Protection degree IP67



These devices are designed to be used in the toughest environmental conditions and they pass the IP67 immersion test acc. to EN 60529. They

can therefore be used in all environments where maximum protection degree of the housing is required.

Reduced actuating force



These switches can be supplied with reduced hardness . internal springs on request. The force required to actuate the switch can thereby be reduced without changing the actuating path of the electrical contacts. This is particularly advantageous for smaller spans, but must, however, always make use of rope pulleys.

Indicator for the state of the reset



If the tension indicator is in the green area, the electrical safety contacts can be closed by pulling the blue knob. The reset status can be identified quickly by the green ring under the blue knob.

Features approved by UL

Electrical Ratings:

Environmental Ratings:

Q300 pilot duty (69 VA, 125-250 V dc) A600 pilot duty (720 VA, 120-600 V ac) Types 1, 4X, 12, 13

Use 60 or 75°C copper (Cu) conductor and wire size range 12, 14 AWG, stranded or solid.

The terminal tightening torque of 7.1 lb in (0.8 Nm).

For FP series: the hub is to be connected to the conduit before the hub is connected to the enclosure

Please contact our technical department for the list of approved products.

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All values in the drawings are in mm

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How to read travel diagrams



Travel diagrams table

Contact blocks	Group 1	Group 2
9 11 21	0 4 8.5	0 8 \bigcirc 14 16
2NC 12 22	R1.5 S R6.5 \ominus 8	R4.5 S R12
18	0 4 8.5	0 8 ⊖14 16
1NO+1NC	R1.5 S R6.5 \ominus_8	R4.5 S R12
20	0 4 ^(b) 8.5	0 8 \bigcirc 14 16
1NO+2NC 12 22 34	R1.5 S R6.5	R4.5 S R12
21 ¹¹ ²¹ ³¹	0 4 \ominus 8.5	0 8 \bigcirc ¹⁴ 16
3NC ¹² ²² ³²	R1.5 S R6.5	R4.5 S R12
22	0 4 ⁽²⁾ 88.5	0 8 ⁽¹⁾¹⁴ 16
2NO+1NC 12 24 34	R1.5 S R6.5	R4.5 S R12
33	0 4 \ominus 8.5	0 8 0 ¹⁴ 16
1NC+1NO 14 22	R1.5 S R6.5	R4.5 S R12
34 ¹¹ / ₇ - ²¹ / ₇ 2NC ¹² / ₁₂ ²²	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 8 \bigcirc 14 16 R4.5 S R12

IMPORTANT:

In safety applications, actuate the switch at least up to the positive opening travel shown in the travel diagrams with symbol \textcircled . Actuate the switch at least with the positive opening force, reported in brackets below each article, next to the actuating force value.

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Service sur site : Vérification, Essais, Calibration



SAS TELEMETRIX ZA PAVY II, 7 Rue du Bois Malhais 78640 Saint-Germain-De-La-Grange CEDEX France

Siège Asie...

Agence SUD Export Tél. (+33) 0972 11 00 03 (+33) 04 84 51 03 00 Europe, Afrique

Fax. (+33) 0972 11 00 57 TeleMetrix contact@telemetrix.fr export@telemetrix.fr

www.telemetrix.fr

Votre interlocuteur