Emergency stop rope pull switches Preventa XY2C

Catalogue



Simply easy!™

Telemecanique Sensors

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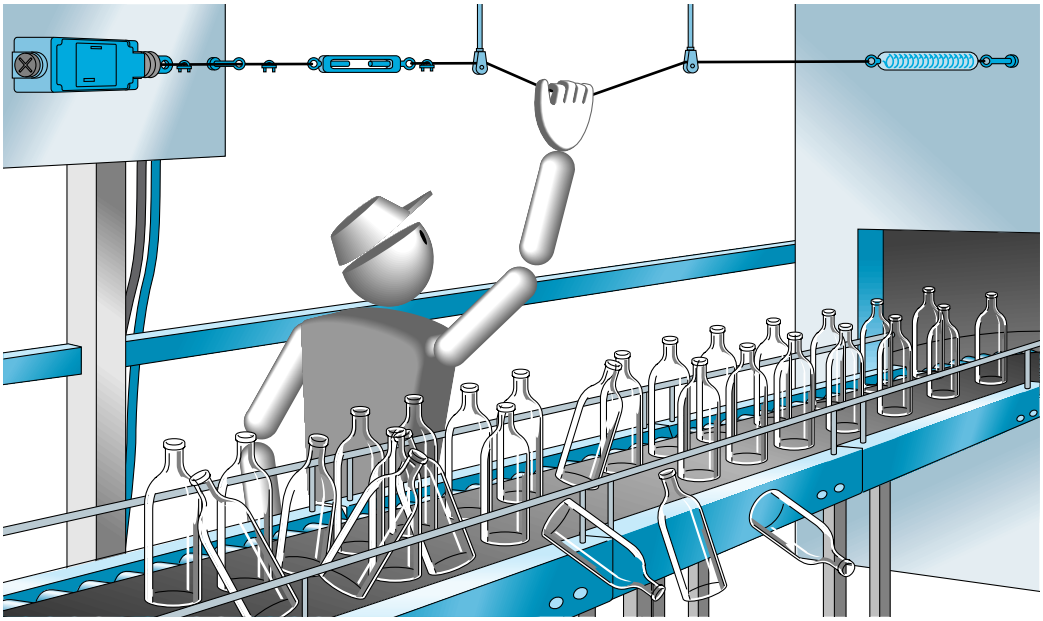
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Presentation

Emergency stop rope pull switches

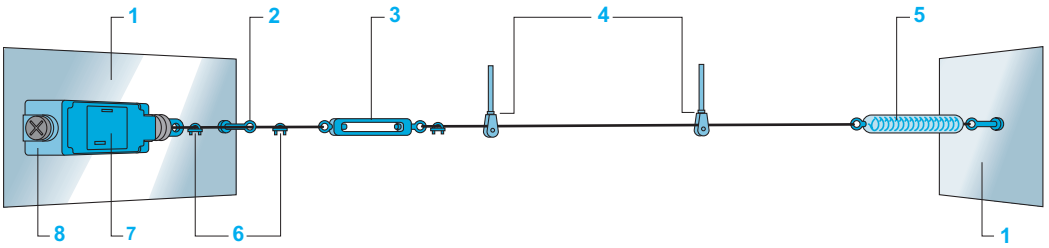
Emergency stop rope pull switches are designed to:
- avert hazards (dangerous phenomena) at the earliest possible moment, or to reduce risks which could cause injury to persons or damage either to machines or work in progress
- be tripped by a single human action when a normal emergency stop function is not available
- trip in the event of the rope pull breaking

Emergency stop rope pull switches are essential in premises and on machines that are potentially dangerous when operating. The operator must be able to trigger the stop instruction at any point within their working area.
Application examples: woodworking machines, shears, conveyor systems, printing machines, textile machines, rolling mills, test laboratories, paint shops, surface treatment works.



Installation

Typical installation



1 Fixing support
2 First cable support
3 Turnbuckle
4 Pulley supports and pulleys
5 End spring
6 Cable grips
7 Switch adjustment
8 Emergency stop

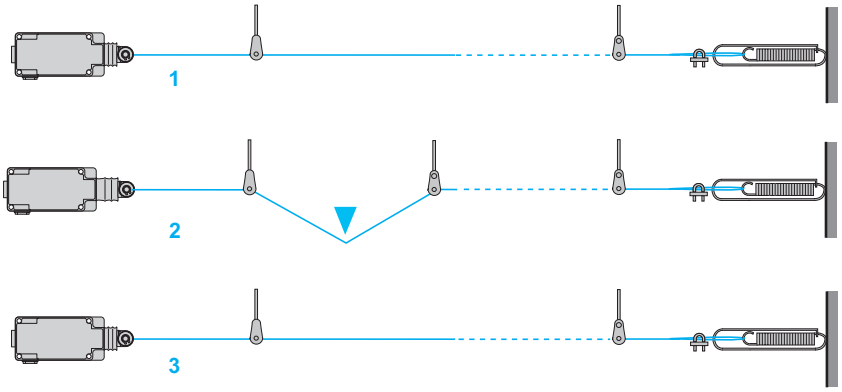
Notes regarding installation

- All XY2CJ, XY2CH and XY2CE emergency stop rope pull switches can be fitted with trip indicators (mechanical indicators for XY2CJ, pilot lights for XY2CH and XY2CE).
- Cable tension adjustment can be performed using:
  - a turnbuckle to be ordered separately (see page 8)
  - a tensioner integrated in XY2CH emergency stop rope pull switches and optional for XY2CJ emergency stop rope pull switches
- This adjustment is simplified by:
  - a cable tension indicator that is available on all XY2CJ, XY2CH and XY2CE models. XY2CE emergency stop rope pull switches incorporate a cable tension indicator, visible with the cover open. There is also an optional version with a window for viewing the cable tension, for adjustment whilst the cover is closed.
- The use of an end spring is mandatory for conveyor system applications to ensure operation of the emergency stop in the event of the cable being pulled towards the switch.
- It is essential that pulleys be used with cables that deviate from a straight run.

Characteristics: page 5
References: pages 6 and 7
Dimensions: page 11

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Main features

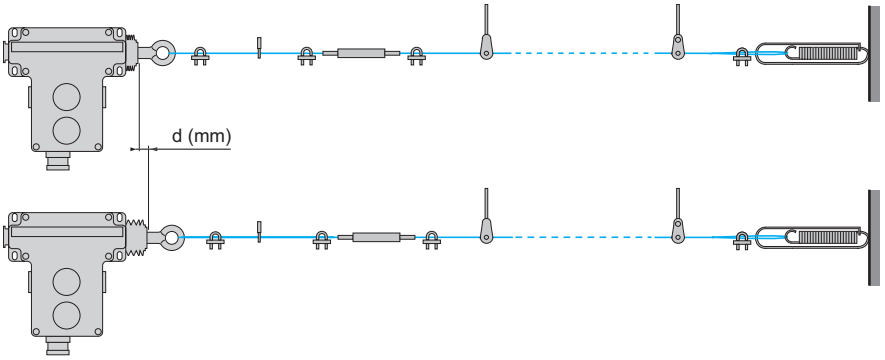


Positive operation: running condition	1	The switches incorporate positive opening operation contacts, the tripping of the switch being made with positive action.
Latching: stop instruction given (tripped)	2	The switch latches in the tripped position (NC safety contact(s) open). The function of the NO contact is purely for signalling.
Resetting: stop condition (awaiting reset/restart)	3	The switches incorporate a reset button, which re-closes the safety contact. Restarting of the machine must only be achieved by manual operation of a control device within the machine start circuit, remote to the emergency stop.

Rope pull expansion and contraction: d

Temperature variations encountered on site are mainly responsible for these variations in length.

To enable instant verification that the rope pull is at its correct tension (and make any necessary adjustments), XY2CH and XY2CE emergency stop rope pull switches incorporate a cable tension indicator.
XY2CE emergency stop rope pull switches incorporate a cable tension indicator, visible with the cover open.
To enable instant verification that the rope pull is at its correct tension (and make any necessary adjustments), they are also available with a window for viewing the cable tension.



Standards

The XY2CJ, XY2CH and XY2CE switches meet all the requirements of the harmonised European standard **EN/ISO 13850**, relating to “Emergency stop devices”.
The switches are CE marked and supplied with an EC declaration of conformity.

Cable diameter

In order to achieve the maximum cable length, according to ambient temperature variation, we recommend use of:
- galvanised cables with red sheath, diameter 3.2 mm for XY2CJ and XY2CH ranges
- galvanised cables with red sheath, diameter 5 mm for XY2CE range (see page 8)

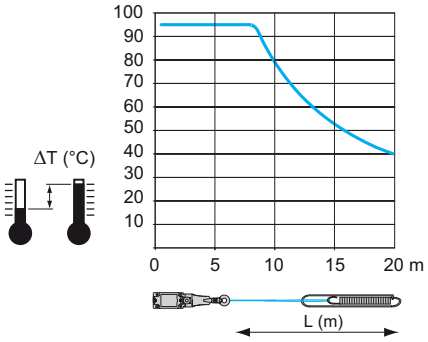
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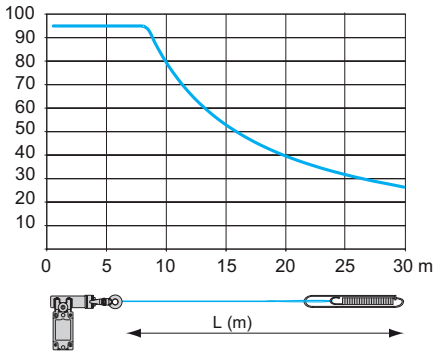
Adjustment values (with end spring)

For Preventa XY2CE emergency stop rope pull switches, the adjustment values depend on the positions of the cam located inside the switch. The adjustment is made by rotating the cam after the switch has been installed. Each notched cam position is referenced by the letters A to F and the selected letter is visible through a viewing port.
The use of an end spring is strongly advised. You can see the references in the table below regarding each type:

Type	Cam position	Maximum cable length	End spring
XY2CJS	–	20 m	XY2CZ703
XY2CJR and XY2CJL	–	30 m	XY2CZ703
XY2CH	–	30 m	XY2CZ703
XY2CE	A, B, C, D, E, F	70 m	XY2CZ702

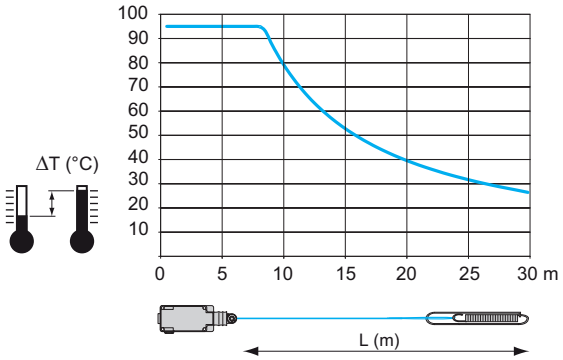
XY2CJ





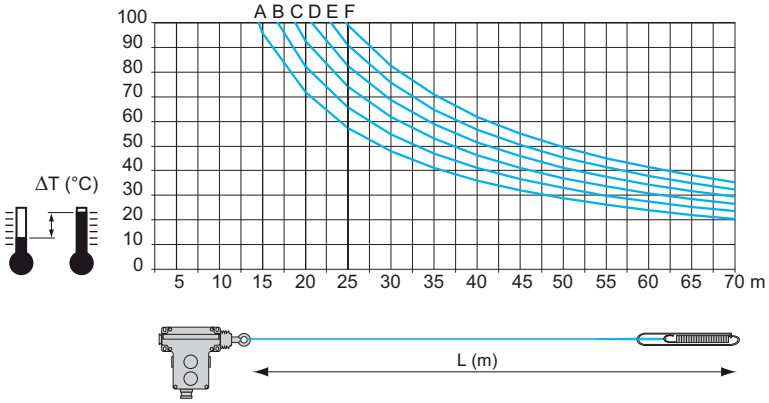
With the graphs above, if we consider an ambient temperature variation of 25°C, for example from 0°C to + 25°C, the table gives us a maximum cable length of 20 metres for XY2CJS and 30 metres for XY2CJR and XY2CJL.

XY2CH



With the graph above, if we consider an ambient temperature variation of 25°C, for example from 0°C to + 25°C, the table gives us a maximum cable length of 30 metres.

XY2CE



With the graph above, if we consider an ambient temperature variation of 35°C, for example from 10°C to + 25°C, the table gives us a maximum cable length of:
- 40 metres, with cam A adjustments
- 70 metres, with cam F adjustments

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Environment

Conformity to standards	Products	**XY2CJ, XY2CH**, **XY2CE**: EN/IEC 60947-5-5, EN/ISO 13850, UL 508 and CSA C 22-2 no. 14
	Machine assemblies	**XY2CJ, XY2CH**, **XY2CE**: EN/IEC 60204-1, Machinery directive: 2006/42/EC, Work equipment directive: 2009/104/EC
Product certifications		**XY2CJ**: UL (NISD) - CSA, CCC. **XY2CH, XY2CE**: UL (NISD) - CSA (with suffix H7), CCC *(1)*
Maximum safety level *(2)*		PL e, category 4 conforming to EN/ISO 13849-1 and SIL CL3 conforming to EN/IEC 62061
Reliability data B_{10d}		**XY2CJ**: 500,000. **XY2CH**: 4,000,000. **XY2CE**: 50,000 (values given for a service life of 20 years but may be limited by contact and mechanical wear)
Protective treatment		Standard version: "TC". Special version: "TH"
Ambient air temperature		For operation: - 25…+ 70°C. For storage:- 40…+ 70°C
Vibration resistance		**XY2CJ, XY2CH**: 10 gn (10…150 Hz) **XY2CE**: 10 gn (10…300 Hz) conforming to EN/IEC 60068-2-6
Shock resistance		**XY2CJ, XY2CH, XY2CE**: 50 gn (duration 11 ms) conforming to EN/IEC 60068-2-27
Electric shock protection		Class I conforming to IEC 61140
Degree of protection		**XY2CJ**: IP 66 and IP 67 conforming to IEC 60529. **XY2CH, XY2CE**: IP 65 conforming to IEC 60529 (IP 66 for XY2CE●A1●●, XY2CE●A2●● and XY2CE●A3●●)
Materials		**XY2CJS**: Zamak body, polyamide head, zinc-plated steel cover **XY2CJL, XY2CJR**: Zamak body and head, zinc-plated steel cover **XY2CH, XY2CE**: Zamak body, stainless steel cover
Mechanical life (no. of operating cycles)		**XY2CJ**: 100,000. **XY2CH**: 800,000. **XY2CE**: 10,000
Length of protected zone (rope pull)		**XY2CJS**: ⩽ 20 m. **XY2CJR and XY2CJL**: ⩽ 30 m. **XY2CH**: ⩽ 30 m. **XY2CE**: ⩽ 70 m
Distance between cable supports		5 m
Cable entries		**XY2CJ, XY2CH**: tapped entries for Pg 13.5, ISO M20 cable gland or 1/2" NPT. **XY2CE**: plain holes for Pg 13.5, ISO M20 cable gland or 1/2" NPT See dimensions on page 11

Contact block characteristics

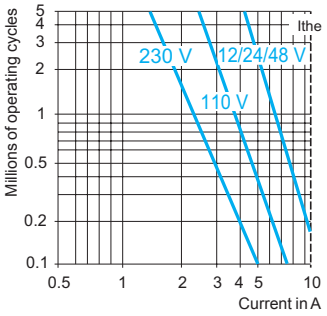
Rated operational characteristics	2-pole contact block	**XY2CJ, XY2CH**, **XY2CE**: AC-15: A300 or Ue = 240 V, Ie = 3 A DC-13: Q300 or Ue = 250 V, Ie = 0.27 A, conforming to EN/IEC 60947-5-1 Appendix A
	3-pole contact block	**XY2CJ, XY2CH**: AC-15: B300 or Ue = 240 V, Ie = 1.5 A DC-13: R300 or Ue = 250 V, Ie = 0.1 A, conforming to EN/IEC 60947-5-1 Appendix A
Nominal thermal current	2-pole contact block	10 A
	3-pole contact block	6 A
Rated insulation voltage	2-pole contact block	**XY2CJ, XY2CH**, **XY2CE**: Ui = 500 V degree of pollution 3 conforming to EN/IEC 60947-1, Ui = 300 V conforming to UL 508, CSA C22-2 no. 14
	3-pole contact block	**XY2CJ, XY2CH**: Ui = 400 V degree of pollution 3 conforming to EN/IEC 60947-1, Ui = 300 V conforming to UL 508, CSA C22-2 no. 14
Rated impulse withstand voltage	2-pole contact block	**XY2CJ, XY2CH**, **XY2CE**: Uimp = 6 kV conforming to EN/IEC 60947-1
	3-pole contact block	**XY2CJ, XY2CH**: Uimp = 4 kV conforming to EN/IEC 60947-1
Positive operation		NC contact with positive opening operation conforming to EN/IEC 60947-5-1 Section 3
Resistance across terminals		⩽ 25 mΩ conforming to NF C 93-050 method A or EN/IEC 60255-7 category 3
Terminal referencing		Conforming to CENELEC EN 50013
Short-circuit protection	2-pole contact block	**XY2CJ, XY2CH, XY2CE**: 10 A cartridge fuse type gG (gl) conforming to EN/IEC 60269
	3-pole contact block	**XY2CJ, XY2CH** : 6 A cartridge fuse type gG (gl) conforming to EN/IEC 60269

Rated operational power (Electrical durability)

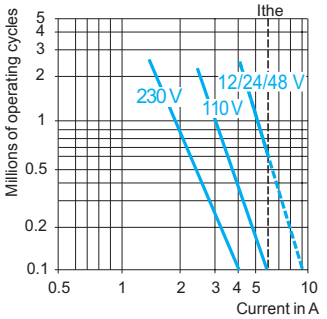
XY2CJ, XY2CH, XY2CE
Conforming to EN/IEC 60947-5-1 Appendix C. Utilisation categories AC-15 and DC-13
Frequency: 3600 operating cycles/hour. Load factor: 0.5

AC supply ∿ 50/60 Hz
⎓ Inductive circuit

2-pole contact block



3-pole contact block



DC supply ⎓
Power broken in W
for 1 million operating cycles.
⎓ Inductive circuit

Voltage	V	**24**	**48**	**120**
⎓	W	13	9	7

Voltage	V	**24**	**48**	**120**
⎓	W	4	3	2

Contact connection

Screw clamp terminals
2 contacts: clamping capacity, min. 1 x 0.5 mm²/AWG 20, max. 2 x 1.5 mm²/AWG 16.
3 contacts: clamping capacity, min. 1 x 0.34 mm²/AWG 22, max. 1 x 1 mm²/AWG 18 or 2 x 0.75 mm²/AWG 20.
Minimum tightening torque: 0.8 N.m/7.1 lb-in. Maximum tightening torque: 1.2 N.m/10.6 lb-in.

(1) Only products XY2CH without pilot light are CCC and UL-CSA approved.
(2) Using an appropriate and correctly connected control system.

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Latching emergency stops
Pg 13.5, ISO M20 and 1/2" NPT. Cable and end spring to be ordered separately *(1)*

Without pilot light

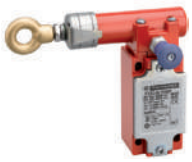
Cable length	Colours and materials	Reset	Supply voltage	Contact type			Cable anchor point	Reference	Weight kg
≤ 20 m	Polyamide head. Zamak red RAL 3000 body. Treated steel cover.	By pull button	–	1	1	NC + NO slow break	RH side or LH side	**XY2CJS15** *(2)*	0.455
				2	–	NC + NC slow break	RH side or LH side	**XY2CJS17** *(2)*	0.455
				2	1	2 NC + 1 NO slow break	RH side or LH side	**XY2CJS19** *(2) (3)*	0.455
≤ 30 m	Zamak Red RAL 3000 head and body. Treated steel cover.	By pull button	–	1	1	NC + NO slow break	RH side	**XY2CJR15** *(2)*	0.669
				2	–	NC + NC slow break	RH side	**XY2CJR17** *(2)*	0.669
				2	1	2 NC + 1 NO slow break	RH side	**XY2CJR19** *(2) (3)*	0.669
				1	1	NC + NO slow break	LH side	**XY2CJL15** *(2)*	0.669
				2	–	NC + NC slow break	LH side	**XY2CJL17** *(2)*	0.669
				2	1	2 NC + 1 NO slow break	LH side	**XY2CJL19** *(2) (3)*	0.669

PF123235

XY2CJS15

PF123234

XY2CJR15

PF123233

XY2CJL15

(1) See separate components on page 8.
(2) For ISO M20 threaded cable entry version, add H29 to the end of the reference selected.
*Example: **XY2CJS15** becomes **XY2CJS15H29**.*
(3) For 1/2" NPT threaded cable entry version, add H7 to the end of the reference selected.
*Example: **XY2CJS19** becomes **XY2CJS19H7**.*

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110937



XY2CH13250

Latching emergency stops
Pg 13.5 and ISO M20 with integral tensioner. Cable and end spring to be ordered separately *(1)*

Without pilot light

Cable length	Colours and materials	Reset	Supply voltage	Contact type			Cable anchor point	Reference	Weight kg
≤ **30 m**	Zamak red RAL 3000 body. Stainless steel cover.	By booted pushbutton	–	1	1	NC + NO slow break	RH side or LH side	**XY2CH13250** *(3)*	0.865
		By mushroom head pushbutton	–	1	1			**XY2CH13350** *(3)*	0.900
		By key-operated pushbutton (key no. 421) *(2)*	–	1	1			**XY2CH13450** *(3)*	0.910
		By flush pushbutton	–	2	–	NC + NC slow break	RH side or LH side	**XY2CH13170** *(3)*	0.865
		By booted pushbutton	–	2	–			**XY2CH13270** *(3)*	0.865
		By mushroom head pushbutton	–	2	–			**XY2CH13370** *(3)*	0.865
		By key-operated pushbutton (key no. 421) *(2)*	–	2	–			**XY2CH13470** *(3)*	0.910
		By flush pushbutton	–	2	1	2 NC + 1 NO slow break	RH side or LH side	**XY2CH13190** *(3)*	0.865
		By booted pushbutton	–	2	1			**XY2CH13290** *(3)*	0.865
		By mushroom head pushbutton	–	2	1			**XY2CH13390** *(3)*	0.865
With orange pilot light (direct supply)									
≤ **30 m**	Red RAL 3000 body. Stainless steel cover.	By booted pushbutton	24 V ∿/⎓	1	1	NC + NO slow break	RH side or LH side	**XY2CH13253**	0.900
				2	–	NC + NC slow break		**XY2CH13273**	0.900
				2	1	2 NC + 1 NO slow break		**XY2CH13293** *(3)*	0.950

110940



XY2CE2A250

Latching emergency stops
Pg 13.5 and 1/2" NPT. Turnbuckle, cable and end spring to be ordered separately *(1)*

Without pilot light

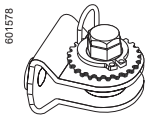
≤ **70 m**	Zamak red RAL 3000 body. Stainless steel cover.	By booted pushbutton	–	1	1	NC + NO slow break	RH side	**XY2CE1A250** *(4)*	1.450
							LH side	**XY2CE2A250** *(4)*	1.450
				2	–	NC + NC slow break	RH side	**XY2CE1A270** *(4)*	1.450
							LH side	**XY2CE2A270** *(4)*	1.450
		By key switch (key no. 421)	–	1	1	NC + NO slow break	RH side	**XY2CE1A450** *(4)*	1.465
							LH side	**XY2CE2A450**	1.465
				2	–	NC + NC slow break	RH side	**XY2CE1A470** *(4)*	1.470
							LH side	**XY2CE2A470**	1.470
With yellow LED pilot light (direct supply)									
≤ **70 m**	Zamak red RAL 3000 body. Stainless steel cover.	By booted pushbutton	24 to 130 V ∿/⎓	2	2	NC + NO slow break	RH side	**XY2CE1A296** *(4)*	1.470
							LH side	**XY2CE2A296** *(4)*	1.470
			230 to 240 V ∿	2	2	NC + NO slow break	RH side	**XY2CE1A297** *(4)*	1.470
							LH side	**XY2CE2A297** *(4)*	1.470

Other versions

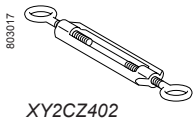
XY2CE with reset by Ø 30 mm mushroom head pushbutton.
XY2CE with window for viewing the cable tension, for adjustment whilst the cover is closed.
Please consult our Customer Care Centre.

(1) See separate components on page 8.
(2) Ø 30 spring return key-operated mushroom head pushbutton.
(3) For ISO M20 threaded cable entry version, add H29 to the end of the reference selected.
*Example: **XY2CH13250** becomes **XY2CH13250H29**.*
(4) For 1/2" NPT threaded cable entry version, add H7 to the end of the reference selected.
*Example: **XY2CE1A250** becomes **XY2CE1A250H7**.*

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XY2CZ210



XY2CZ402



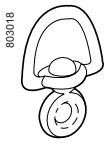
XY2CZ503



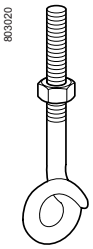
XY2CZ524



XY2CZ601



XY2CZ602



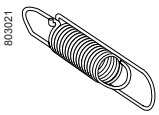
XY2CZ705



XY2CZ708



XY2CZ701



XY2CZ702

Separate components

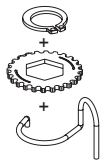
Description	For use with	Diameter mm	Length m	Reference	Weight kg
Galvanised cables with red sheath	XY2CJ and XY2CH	3.2	10.5	**XY2CZ301**	0.280
			15.5	**XY2CZ3015**	0.410
			20.5	**XY2CZ3020**	0.550
			25.5	**XY2CZ302**	0.690
			30.5	**XY2CZ303**	0.830
	XY2CE	5	15.5	**XY2CZ1015**	0.850
			25.5	**XY2CZ102**	1.400
			50.5	**XY2CZ105**	2.750
			70.5	**XY2CZ107**	3.870

Description	Type	For use with	Sold in lots of	Unit reference	Weight kg
Tensioner	–	XY2CJ	1	**XY2CZ210**	0.051
Turnbuckles	M6 x 60 + locknut	All models *(1)*	1	**XY2CZ402**	0.060
	M8 x 70 + locknut	All models *(1)*	1	**XY2CZ404**	0.100
Cable grips	Single	Cable Ø 3 to 5 mm	10	**XY2CZ503**	0.007
	Double	Cable Ø 3 to 5 mm	10	**XY2CZ513**	0.016
	Clamp	Cable Ø 3.2 mm	10	**XY2CZ523**	0.050
		Cable Ø 5 mm	10	**XY2CZ524**	0.080
Cable supports	Fixed	All models	10	**XY2CZ601**	0.030
	Swivelling	All models	1	**XY2CZ602**	0.130
	Pulley support	All models	1	**XY2CZ705**	0.060
Pulley	Cable Ø 5 mm max.	All models	1	**XY2CZ708**	0.056
Cable end protectors	–	Cable Ø 3.2 mm	10	**XY2CZ701**	0.002
		Cable Ø 5 mm	10	**XY2CZ704**	0.010
End springs	–	XY2CJ and XY2CH	1	**XY2CZ703**	0.035
		XY2CE	1	**XY2CZ702**	0.080

(1) ***XY2CH13●●●*** *and* ***XY2CH14●●●*** *emergency stop rope pull switches incorporate a cable tensioner as standard. Therefore, there is no need to order a turnbuckle.*

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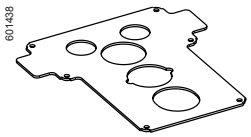


XY2CZ918

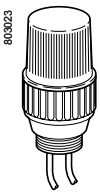
Kits and mounting accessories

Kit contents	For use with	Cable diameter	Cable length	Reference	Weight
		mm	m		kg
1 spring + 1 notched washer + 1 circlip	XY2CH	–	–	**XY2CZ918**	0.010
1 galvanised cable + 1 cable grip **XY2CZ523** + 1 end spring **XY2CZ703**	XY2CJ and XY2CH	3.2	10.5	**XY2CZ9310**	0.444
			15.5	**XY2CZ9315**	0.581
			20.5	**XY2CZ9320**	0.635
			30.5	**XY2CZ9330**	1.055
1 galvanised cable + 4 cable grips **XY2CZ523** + 1 tensioner **XY2CZ210** + 1 cable support **XY2CZ601** + 1 cable end protector **XY2CZ701** + 1 end spring **XY2CZ703**	XY2CJ	3.2	30.5	**XY2CZ9425**	2.045
1 galvanised cable + 4 cable grips **XY2CZ524** + 1 turnbuckle **XY2CZ404** + 1 cable support **XY2CZ601** + 3 cable end protectors **XY2CZ704** + 1 end spring **XY2CZ702**	XY2CE	5	25.5	**XY2CZ9525**	1.853
			50.5	**XY2CZ9550**	3.240
			70.5	**XY2CZ9570**	4.426

Safety detection solutions
Emergency stop rope pull switches
Preventa XY2C



XY2CZ805



XY2CZ●●●●

Replacement parts

Description	For use with	Type	Reference	Weight kg
Reset pushbutton (blue), spring return	XY2CH and XY2CE	Flush with “R” marked on push	**ZB5AA639**	0.018
		Booted	**ZB5AP6S**	0.019
		Mushroom head, Ø 30	**ZB5AC64**	0.027
Key switch	XY2CH and XY2CE	With key no. 421	**ZB5AG612R26**	0.064
		With key no. 455	**ZB5AG6R26**	0.064
Key for reset button	XY2CH and XY2CE	No. 421	**Q99900911**	0.006
		No. 455	**Q99900901**	0.006
Pilot light head assembly	XY2CE	Red	**XY2CZ800**	0.015
		Orange	**XY2CZ801**	0.015
Set of 5 cover gaskets	XY2CE	–	**XY2CZ805**	0.122
Fixing nut, plastic, grey	XY2CH and XY2CE	–	**ZB5AZ901**	0.002
Fixing nut tightening key, plastic, grey	XY2CH and XY2CE For fixing nut ZB5AZ901		**ZB5AZ905**	0.016

Description	For use with	Voltage	Sold in lots of	Unit reference	Weight kg
Pilot lights With bulb DL1AA●●● included	XY2CH Colour: orange	24 V ∿/⎓	1	**XY2CZ0024** *(1)*	0.035
		130 V ∿/⎓	1	**XY2CZ0130** *(1)*	0.035
		230 V ∿/⎓	1	**XY2CZ0230** *(1)*	0.035
Supply on LED	XY2CE Colour: red	24 V ∿/⎓	5	**ZALVB4**	0.015
		48 to 120 V ∿	5	**ZALVG4**	0.015
		230 to 240 V ∿	5	**ZALVM4**	0.015
	XY2CE Colour: yellow	24 V ∿/⎓	5	**ZALVB5**	0.015
		48 to 120 V ∿	5	**ZALVG5**	0.015
		230 to 240 V ∿	5	**ZALVM5**	0.015
Incandescent bulbs, screw base fitting	XY2CH	24 V - 6 W	10	**DL1AA024**	0.004
		130 V - 6 W	10	**DL1AA127**	0.004
		230 V - 6 W	10	**DL1AA220**	0.004
Set of 5 collars	For mounting bulbs DL1AA127 and DL1AA220 in pilot lights XY2CZ●●●	–	5	**XY2CZ908**	0.018

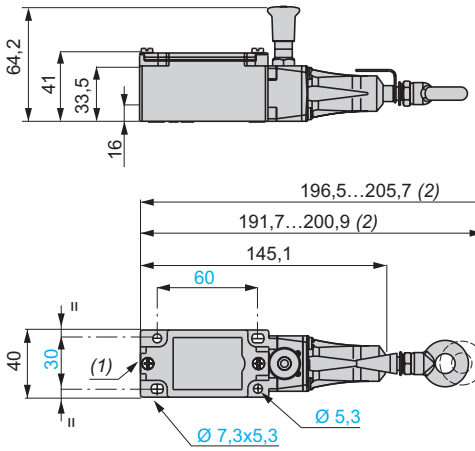
(1) Only for use as replacement parts on switches pre-fitted with pilot lights. CCC and UL-CSA approvals no longer apply if an XY2CZ●●● pilot light is mounted on XY2 CH emergency stops.

Safety detection solutions
Emergency stop rope pull switches
Preventa XY2C

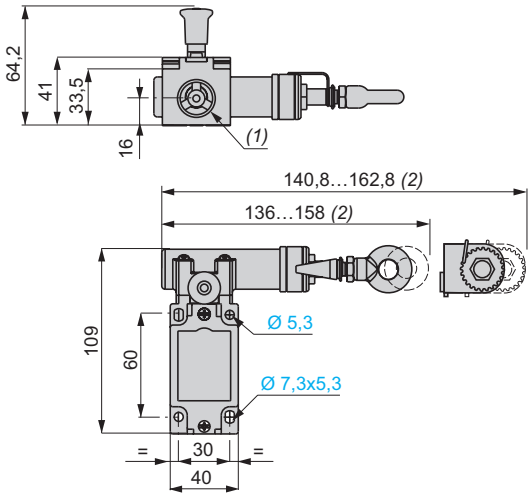
Emergency stop rope pull switches

XY2CJ

XY2CJS●●

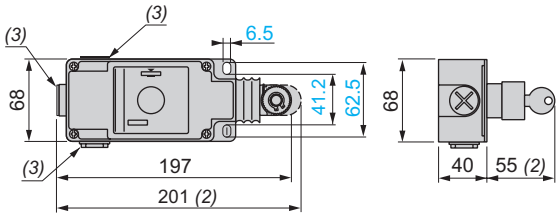


XY2CJR●● and **XY2CJL●●** (same dimensions with anchor point on RH side or LH side)

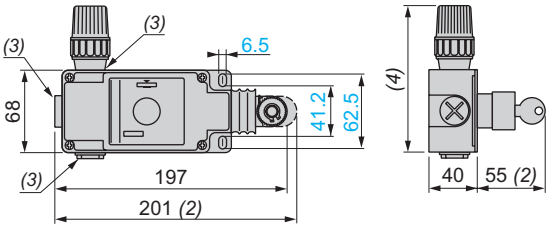


XY2CH

Without pilot light

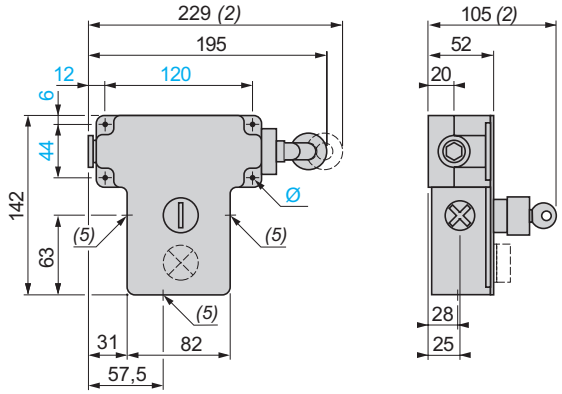


With pilot light



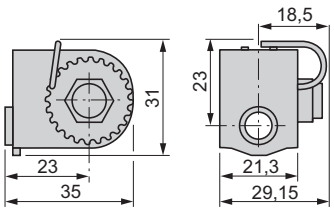
XY2CE

XY2CE1A●●● and **XY2CE2A●●●** (same dimensions with anchor point on RH side or LH side)

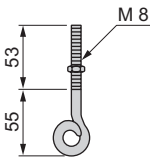


Accessories

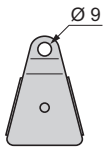
XY2CZ210



XY2CZ705



XY2CZ708



*(1) Tapped entries for no. 13 cable gland (Pg 13.5). For ISO M20, the reference becomes **XY2CJ●●●H29.** For 1/2" NPT, the reference becomes **XY2CJ●●●H7**.*
(2) Maximum extension.
*(3) Tapped entries for no. 13 cable gland (Pg 13.5). For ISO M20, the reference becomes **XY2CH●●●H29**.*
(4) 121 mm: 24 V and 48 V versions. 131 mm: 130 V and 230 V versions.
(5) 3 plain holes for no. 13 (Pg 13.5) or ISO M20 cable gland.
Ø: 4 elongated holes Ø 6 mm.

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XY2CZ9570 9

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ZB5AG6R26 10
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