Emergency stop rope pull switches XY2C range

Catalogue

Simply easy!™

Telemecanique Sensors

Contents

Emergency stop rope pull switches
XY2C range

Emergency stop rope pull switches
XY2CJ, XY2CH, XY2CE and XY2CED

Safety detection solutions
Emergency stop rope pull switches
XY2C range

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

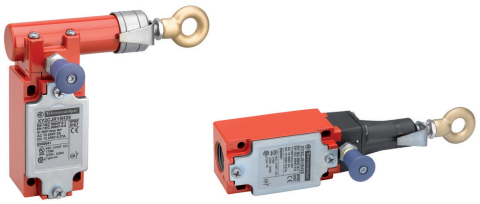
Emergency stop rope pull switches are essential in premises and on machines that are potentially dangerous when operating. The operator must be able to trigger the stop instruction at any point within their working area.

Application examples: woodworking machines, shears, conveyor systems, printing machines, textile machines, rolling mills, test laboratories, paint shops, surface treatment works, etc.

XY2CJ, XY2CH and XY2CE emergency stop rope pull switches with single anchor point

> 20 to 70 m cable
> Rugged, compact offer, UL NiSD certified
> Simple installation and maintenance using dedicated accessories (pilot light, quick tensioner, and cable tension indicator)

UL NiSD certified



XY2CJ compact range

XY2CED emergency stop rope pull switches with double anchor points

> Long cable (up to 2 x 100 m with supports and pulleys)
> Rugged offer, UL NiSD certified
> Easy mounting with aid of simple, dedicated accessories (removable shim for adjusting cable tension, quick tensioner, cable tension indicator, etc.)

2 x 100 m max. cable

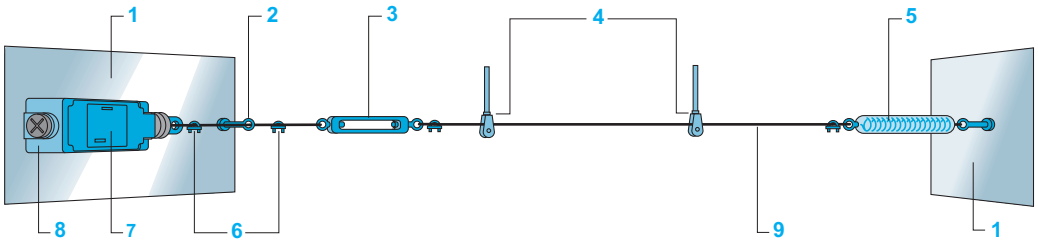
XY2CED range with double anchor points

+ Certified, rugged safety devices that are easy to install

Safety detection solutions
Emergency stop rope pull switches
XY2C range

Installation

Description of a typical installation for XY2CJ, XY2CH and XY2CE *(1)*



1 Mounting support	4 Pulleys and pulley supports	7 Switch adjustment
2 First cable support	5 End spring	8 Emergency stop
3 Turnbuckle	6 Cable grips	9 Cable

Notes regarding installation

■ XY2CJ, XY2CH, XY2CE and XY2CED emergency stop rope pull switches can be fitted with trip indicators (mechanical indicators for XY2CJ, pilot lights for XY2CH, XY2CE and XY2CED).

■ The cable tension can be adjusted using:
□ a turnbuckle to be ordered separately (see page 12)
□ a quick tensioner integrated in XY2CH emergency stop rope pull switches and optional for XY2CJ, XY2CE and XYCED emergency stop rope pull switches
■ This adjustment is simplified by:
□ a cable tension indicator that is available on XY2CJ, XY2CH and XY2CE models.
XY2CE emergency stop rope pull switches incorporate a cable tension indicator that is visible with the cover open. There is also an optional version with a window for viewing the cable tension, so that it can be adjusted when the cover is closed (excludes XY2CED models).

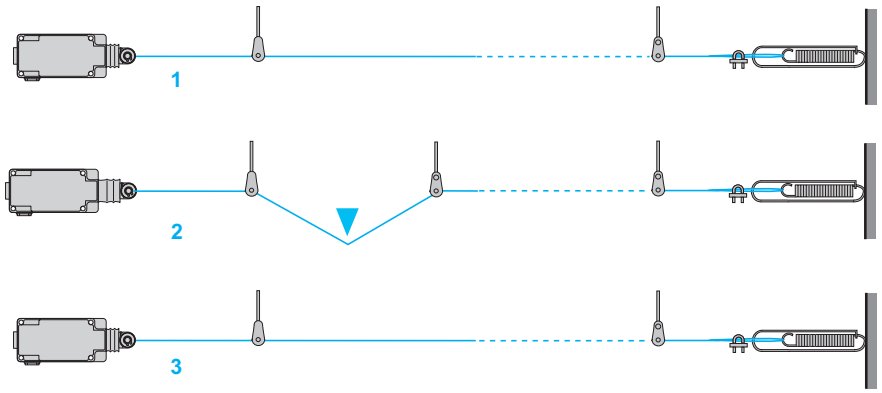
■ For XY2CED emergency stop rope pull switches with double anchor points, the cable tension is visible on both end springs. A removable adjustment shim can be used to preset the balance between the left and right anchor points. The end springs and shim are supplied with the product.

■ The use of an end spring is mandatory for conveyor system applications to allow operation of the emergency stop in the event of the cable being pulled towards the switch.

■ For XY2CED switches, use of the model-specific end springs is mandatory, regardless of the application.

■ It is essential that pulleys be used with cables that deviate from a straight run (within the permissible angles. Refer to the mounting instructions).

Basic principles



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 signaling.
Resetting: stop condition (awaiting reset/restart)	3	The switches incorporate a reset button, which re-closes the safety contact. The machine must only be restarted by manual operation of a control device within the machine start circuit, remote to the emergency stop.

(1) See the description of a typical XY2CED installation on our website www.tesensors.com

Safety detection solutions
Emergency stop rope pull switches
XY2C range

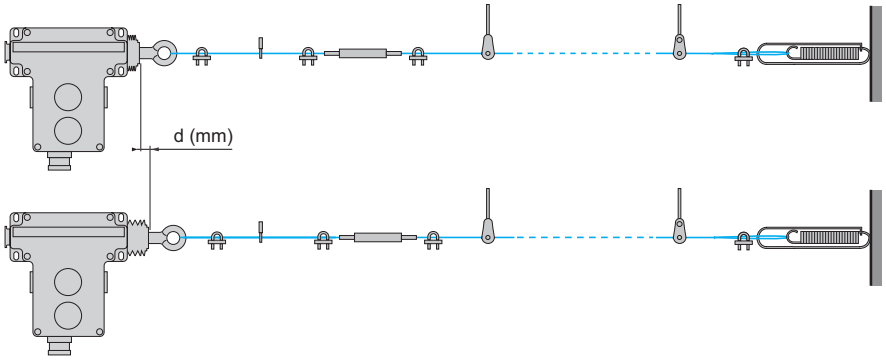
Rope pull expansion or contraction: d

This is the expansion or contraction of the rope pull cable. 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), XY2CJ, XY2CH, and XY2CE emergency stop rope pull switches incorporate a cable tension indicator.

XY2CE emergency stop rope pull switches incorporate a cable tension indicator that is visible with the cover open. They are also available with a window for viewing the cable tension, enabling instant verification that the rope pull is at its correct tension (and to allow any necessary adjustments to be made) (excludes XY2CED models).

For XY2CED, the cable tension indicator is visible on the model-specific end springs supplied with the product.



Standards

XY2CJ, XY2CH, XY2CE, and XY2CED switches meet the requirements of the harmonized 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

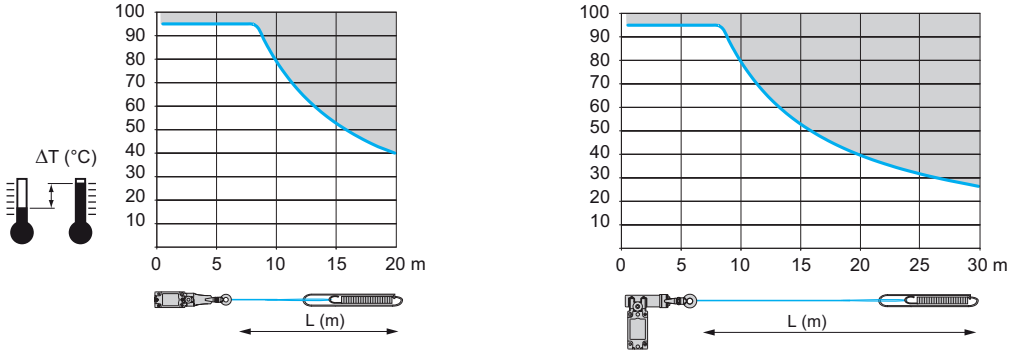
In order to achieve the maximum cable length, according to ambient temperature variation, we recommend use of:
- galvanized cables with red sheath, diameter 3.2 mm for XY2CJ and XY2CH ranges
- galvanized cables with red sheath, diameter 5 mm for XY2CE and XY2CED ranges (see page 12)

Adjustment values with end spring

For 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 window.
The use of end springs is strongly advised (mandatory for XY2CED).
The references for each type are given in the table below:

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
XY2CED	–	2 X 100 m (with pulleys) 2 x 70 m (with fixed cable supports)	XY2CZ712 (2 end springs supplied with the product)

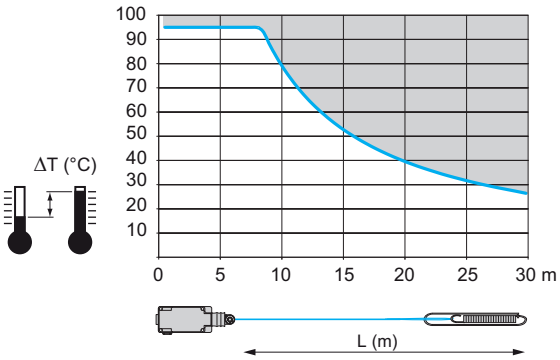
XY2CJ



: Prohibited zone
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 m for XY2CJS and 30 m for XY2CJR and XY2CJL.

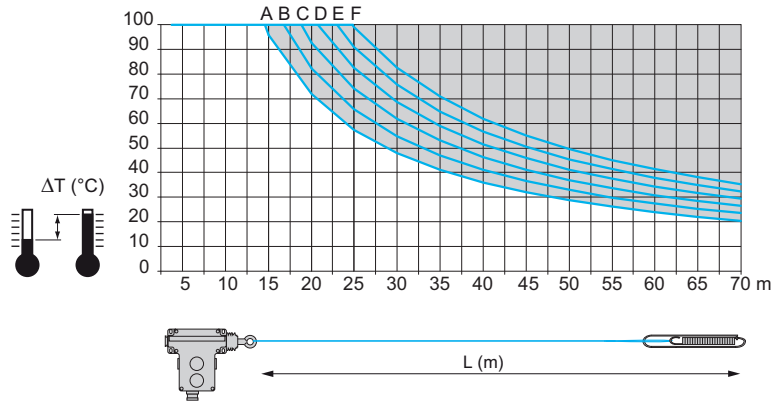
Adjustment values with end spring *(continued)*

XY2CH



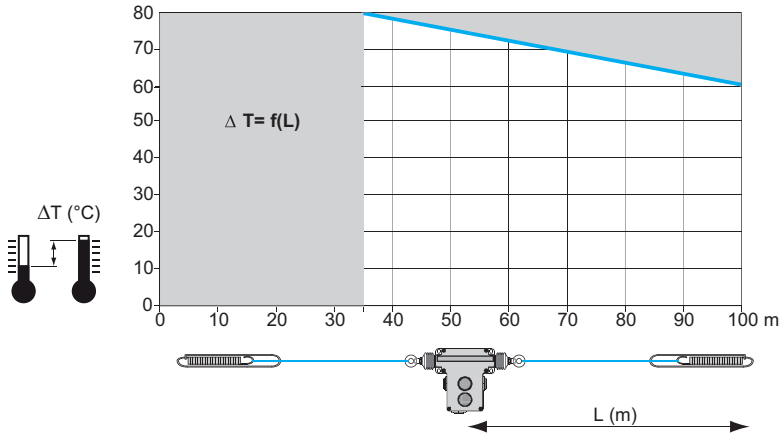
With the graph above, if we consider an ambient temperature variation of 25 °C, for example from 0 °C to + 25 °C, the table gives us a maximum cable length of 30 m.

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 m, with cam A adjustments
- 70 m, with cam F adjustments

XY2CED



: Prohibited zone

With the graph above, if we consider an ambient temperature variation of 65 °C, the maximum cable length on each side will be 85 m (2 x 85 m).

Safety detection solutions
Emergency stop rope pull switches
XY2C range

Environment		
Conforming to standards	Products	EN/IEC 60947-5-5, EN/ISO 13850, UL 508 and CSA C 22-2 no. 14
	Machine assemblies	EN/IEC 60204-1, Machinery directive: 2006/42/EC Work equipment directive: 2009/104/EC
Product certifications		**XY2CJ**: UL (NISD) - CSA, CCC, EAC **XY2CH**: UL (NISD) *(1)* - CSA (with suffix H7) *(1)*, EAC, CCC *(1)* **XY2CE, XY2CED**: UL (NISD) - CSA, EAC, CCC
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, XY2CED:** 300,000 (Values given for a service life of 20 years but may be limited by contact and mechanical wear)
Ambient air temperature	For operation	- 25…+ 70 °C (- 40…+ 70 °C for **XY2CH**, **XY2CE** and **XY2CED** with booted reset pushbutton and silicone bellows) *(3)*
	For storage	- 40…+ 70 °C
Vibration resistance		**XY2CJ, XY2CH**: 10 gn (10…150 Hz) **XY2CE, XY2CED**: 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 **XY2CED:** 35 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●A●●●**, **Y2CE●C●●●**) **XY2CED:** IP 66 conforming to IEC 60529
Materials		**XY2CJS**: Zamak body, polyamide head, zinc-plated steel cover **XY2CJL, XY2CJR**: Zamak body and head, zinc-plated steel cover **XY2CH, XY2CE, XY2CED**: Zamak body, stainless steel cover
Mechanical life (no. of operating cycles)		**XY2CJ**: 100,000 **XY2CH**: 800,000 **XY2CE, XY2CED:** 60,000
Length of protected zone		**XY2CJS**: ⩽ 20 m **XY2CJR and XY2CJL**: ⩽ 30 m **XY2CH**: ⩽ 30 m **XY2CE**: ⩽ 70 m **XY2CED:** ⩾ 2 x 35 m to 2 x 100 m
Distance between cable supports		**XY2CJ, XY2CH, XY2CE:** 5 m **XY2CED:** 3 to 5 m
Cable entries		**XY2CJ, XY2CH**: Tapped entries for ISO M20, Pg 13.5 or 1/2" NPT cable gland **XY2CE, XY2CED:** Untapped entries for ISO M20 or Pg 13.5 cable gland, tapped entries for 1/2" NPT cable gland See dimensions on page 16.

*(1) Only **XY2CH** products without pilot light are approved.*
(2) When the emergency stop rope pull switch is used with an appropriate and correctly connected control system. Only models with 2 NC contacts can be used with an emergency stop monitoring safety relay.
*(3) X**Y2CH**, **XY2CE** and **XY2CED** with booted reset pushbutton and silicone bellows are designed for switching in a maximum operating temperature range of -40°C to 70°C / -40°F to 158°F. The emergency stop rope pull switch is only one component of the entire installation, the proper operation of the overall equipment must be checked regularly.*
In case of particularly harsh environmental conditions, additional protection devices shall be implemented.

Contact block characteristics

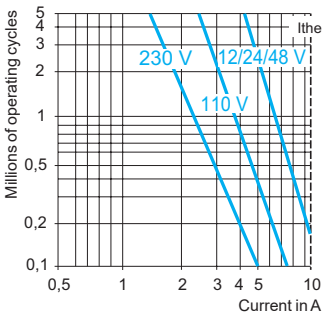
Rated operational characteristics	2-pole contact block	**XY2CJ, XY2CH**, **XY2CE, XY2CED**: AC-15: A300 or Ue = 240 V, Ie = 3 A DC-13: Q300 or Ue = 250 V, Ie = 0.27 A, conforming to EN/IEC 60947-5-1 Appendix A
	3-pole contact block	**XY2CJ, XY2CH**: AC-15: B300 or Ue = 240 V, Ie = 1.5 A DC-13: R300 or 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, XY2CED**: 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, XY2CED**: 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, XY2CED**: 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)

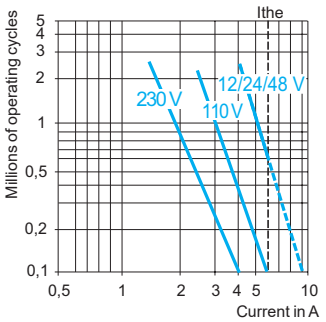
XY2CJ, XY2CH, XY2CE, XY2CED
Conforming to EN/IEC 60947-5-1 Appendix C. Utilization categories AC-15 and DC-13
Frequency: 3,600 operating cycles/hour. Load factor: 0.5

AC supply ∿ 50/60 Hz
⎓ Inductive circuit

2-pole contact block



3-pole contact block



DC supply ⎓
Breaking current
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.

Safety detection solutions
Emergency stop rope pull switches
XY2CJ range

Emergency stop rope pull switches with single anchor point ISO M20, Pg 13.5 and 1/2" NPT

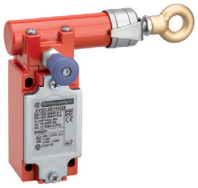
Turnbuckle or quick tensioner, cable and end spring to be ordered separately *(1)*

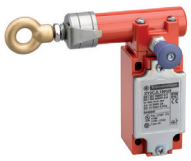
Without pilot light

Cable length	Colors and materials	Reset	Supply voltage	Contact type			Cable anchor point	Reference	Weight kg
				1	1				
≤ 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 parts on page 12.
(2) For ISO M20 tapped cable entry version, add H29 to the end of the selected reference.
*For example: **XY2CJS15** becomes **XY2CJS15H29**.*
(3) For 1/2" NPT tapped cable entry version, add H7 to the end of the selected reference.
*For example: **XY2CJS19** becomes **XY2CJS19H7**.*

Safety detection solutions
Emergency stop rope pull switches
XY2CH range

Emergency stop rope pull switches with single anchor point ISO M20, Pg 13.5 and 1/2" NPT with integrated quick tensioner

Cable and end spring to be ordered separately *(1)*

Without pilot light

Cable length	Colors and materials	Reset	Supply voltage	Contact type			Cable anchor point	Reference	Weight kg
				1	1				
≤ 30 m	Zamak red RAL 3000 body Stainless steel cover Chloroprene bellows	By flush pushbutton	–	1	1	NC + NO slow break	RH side or LH side	**XY2CH13150** *(4)*	0.865
		By booted pushbutton	–	1	1			**XY2CH13250** *(3)* *(4)*	0.865
		By mushroom head pushbutton	–	1	1			**XY2CH13350** *(4)*	0.900
		By key-operated pushbutton (key no. 421) *(2)*	–	1	1			**XY2CH13450** *(3)* *(4)*	0.910
		By flush pushbutton	–	2	–	NC + NC slow break	RH side or LH side	**XY2CH13170** *(3)* *(4)*	0.865
		By booted pushbutton	–	2	–			**XY2CH13270** *(3)* *(4)*	0.865
		By mushroom head pushbutton	–	2	–			**XY2CH13370** *(3)*	0.865
		By key-operated pushbutton (key no. 421) *(2)*	–	2	–			**XY2CH13470** *(3)* *(4)*	0.910
		By flush pushbutton	–	2	1	2 NC + 1 NO slow break	RH side or LH side	**XY2CH13190** *(3)* *(4)*	0.865
		By booted pushbutton	–	2	1			**XY2CH13290** *(3)* *(4)*	0.865
		By mushroom head pushbutton	–	2	1			**XY2CH13390** *(3)* *(4)*	0.865

PF110938

XY2CH13250

PF1123222

XY2CH13450

PF1123217

XY2CH13170

With orange pilot light (direct supply)

≤ 30 m	Red RAL 3000 body Stainless steel cover Chloroprene bellows	By booted pushbutton	24 V ∿/⎓	1	1	NC + NO slow break	RH side or LH side	**XY2CH13253** *(3)*	0.900
				2	–	NC + NC slow break		**XY2CH13273**	0.900
				2	1	2 NC + 1 NO slow break		**XY2CH13293** *(3)*	0.950

PF1123219

XY2CH13253

Other versions Versions with silicon bellows
Please contact our Customer Care Center.

(1) See separate parts on page 12.
(2) Ø 30 spring return key-operated mushroom head pushbutton.
(3) For ISO M20 tapped cable entry version, add H29 to the end of the selected reference.
*For example: **XY2CH13250** becomes **XY2CH13250H29**.*
(4) For 1/2" NPT tapped cable entry version, add H7 to the end of the selected reference.
*For example: **XY2CH13190** becomes **XY2CH13190H7**.*

Safety detection solutions
Emergency stop rope pull switches
XY2CE range


PF123209

XY2CE2A250


PF123203

XY2CE1A450


PF123212

XY2CE2A450


PF123210

XY2CE2A296


PF123202

XY2CE1A296H7


XY2C_620_CPODA2016021

Emergency stop rope pull switch with window for viewing the cable tension

Emergency stop rope pull switches with single anchor point ISO M20 or Pg 13.5 *(1)* and 1/2" NPT *(2)*

Turnbuckle or quick tensioner, cable, and end spring to be ordered separately *(3)*

Without pilot light

Cable length	Colors and materials	Reset	Supply voltage	Contact type			Cable anchor point	Reference	Weight kg
⩽ **70 m**	Zamak red RAL 3000 body Stainless steel cover Nitrile bellows	By flush pushbutton	–	1	1	NC + NO slow break	RH side	**XY2CE1A150** *(2)*	1.450
							LH side	**XY2CE2A150** *(2)*	1.450
		By booted pushbutton	–	1	1	NC + NO slow break	RH side	**XY2CE1A250** *(2)*	1.450
							LH side	**XY2CE2A250** *(2)*	1.450
				2	–	NC + NC slow break	RH side	**XY2CE1A270** *(2)*	1.450
							LH side	**XY2CE2A270** *(2)*	1.450
				2	2	NC + NO slow break	RH side	**XY2CE1A290** *(2)*	1.450
							LH side	**XY2CE2A290** *(2)*	1.450
		By key switch (key no. 421)	–	1	1	NC + NO slow break	RH side	**XY2CE1A450**	1.465
							LH side	**XY2CE2A450** *(2)*	1.465
				2	–	NC + NC slow break	RH side	**XY2CE1A470**	1.470
							LH side	**XY2CE2A470**	1.470

With yellow LED pilot light (direct supply)

⩽ **70 m**	Zamak red RAL 3000 body Stainless steel cover Nitrile bellows	By booted pushbutton	24 to 130 V ∿/⎓	2	2	NC + NO slow break	RH side	**XY2CE1A296** *(2)*	1.470
							LH side	**XY2CE2A296** *(2)*	1.470
			230 to 240 V ∿	2	2	NC + NO slow break	RH side	**XY2CE1A297** *(2)*	1.470
							LH side	**XY2CE2A297** *(2)*	1.470

Other versions

- ATEX versions
- Versions with low tripping force (< 125 N). Rope pull tripping deflection < 300 mm
- Versions with reset by Ø 30 mm mushroom head pushbutton
- Versions with cable tension viewing window for adjustment when the cover is closed
- Versions with silicon bellows

Please contact our Customer Care Center.

(1) With untapped entries for ISO M20 or Pg 13.5 cable gland.
*(2) For 1/2" NPT tapped cable entry version, add H7 to the end of the selected reference (for these versions, the pilot light is red). For example: **XY2CE1A250** becomes **XY2CE1A250H7**.*
(3) See separate parts on page 12.

Safety detection solutions
Emergency stop rope pull switches
XY2CED range

PF123244

XY2CEDA190

PF123247

XY2CEDA290

PF123250

XY2CEDA590

PF123245

XY2CEDA196
XY2CEDA197

PF123248

XY2CEDA296
XY2CEDA297

PF123252

XY2CEDA296H7

Emergency stop rope pull switches with double anchor point ISO M20 or Pg 13.5 and 1/2" NPT

Turnbuckle or quick tensioner and cable to be ordered separately *(1)*

Without pilot light

Cable length	Colors and materials	Reset	Supply voltage	Contact type		Reference *(2)*	Weight kg
L ⩾ 2 x 35 m **L ⩽ 2 x 70 m** (L ⩾ 2 x 35 m L ⩽ 2 x 100 m with pulleys and pulley supports)	Zamak red RAL 3000 body Stainless steel cover Nitrile bellows	By flush pushbutton	–	2	2 NC + NO slow break	**XY2CEDA190** *(3)*	1.900
		By booted pushbutton	–	2	2 NC + NO slow break	**XY2CEDA290** *(3)*	1.900
		By key-operated pushbutton (key no. 455)	–	2	2 NC + NO slow break	**XY2CEDA590**	1.900
	Zamak red RAL 3000 body Stainless steel cover Silicon bellows	By flush pushbutton	–	2	2 NC + NO slow break	**XY2CEDC190**	1.900
		By booted pushbutton	–	2	2 NC + NO slow break	**XY2CEDC290**	1.900
		By key-operated pushbutton (key no. 455)	–	2	2 NC + NO slow break	**XY2CEDC590**	1.900

With yellow LED pilot light (direct supply)

L ⩾ 2 x 35 m **L ⩽ 2 x 70 m** (L ⩾ 2 x 35 m L ⩽ 2 x 100 m with pulleys and pulley supports)	Zamak red RAL 3000 body Stainless steel cover Nitrile bellows	By flush pushbutton	∿/⎓ 24 to 130 V	2	2 NC + NO slow break	**XY2CEDA196** *(3)*	1.900
			∿ 230 to 240 V	2	2 NC + NO slow break	**XY2CEDA197**	1.900
		By booted pushbutton	∿/⎓ 24 to 130 V	2	2 NC + NO slow break	**XY2CEDA296** *(3)*	1.900
			∿ 230 to 240 V	2	2 NC + NO slow break	**XY2CEDA297**	1.900
		By key-operated pushbutton (key no. 455)	∿/⎓ 24 to 130 V	2	2 NC + NO slow break	**XY2CEDA596** *(3)*	1.900
			∿ 230 to 240 V	2	2 NC + NO slow break	**XY2CEDA597**	1.900
	Zamak red RAL 3000 body Stainless steel cover Silicon bellows	By flush pushbutton	∿/⎓ 24 to 130 V	2	2 NC + NO slow break	**XY2CEDC296**	1.900
		By booted pushbutton	∿ 230 to 240 V	2	2 NC + NO slow break	**XY2CEDC297**	1.900

Other versions

- ATEX versions.
- Versions with low tripping force (< 125 N)

Rope pull tripping deflection < 300 mm. Maximum cable length: 2 x 50 m.
Minimum cable length: 2 x 3.6 m.

Contact our Customer Care Center.

(1) See separate parts on page 12.
*(2) XY2CED emergency stop rope pull switches are supplied with an adjustment shim **XY2CZ713** and 2 end springs **XY2CZ712**.*
*(3) For 1/2" NPT tapped cable entry version, add H7 to the end of the selected reference (for these versions, the pilot light is red). For example: **XY2CEDA190** becomes **XY2CEDA190H7**.*

Safety detection solutions
Emergency stop rope pull switches
XY2C range

XY2C_620_CPODA2016018

XY2CZ30●●

Separate parts

Description	Diameter mm	For use with	Length m	Reference	Weight kg
Galvanized cables with red sheath	3.2	XY2CJ and XY2CH	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
	5	XY2CE	15.5	**XY2CZ1015**	0.850
			25.5	**XY2CZ102**	1.400
	5	XY2CE and XY2CED	50.5	**XY2CZ105**	2.750
			70.5	**XY2CZ107**	3.870
			100.5	**XY2CZ110**	5.520

PF123239

XY2CZ210
XY2CZ213

Description	Type	For use with	Unit reference	Weight kg
Quick tensioner	–	XY2CJ	**XY2CZ210**	0.051
		XY2CE and XY2CED	**XY2CZ213**	0.090
Shim for adjusting cable tension	–	XY2CED	**XY2CZ713** *(1)*	0.010
Turnbuckle	M6 x 60 + locknut	XY2CJ	**XY2CZ402**	0.060
	M8 x 70 + locknut	XY2CE, XY2CH and XY2CJ *(2)*	**XY2CZ404**	0.100
Set of 2 turnbuckles	M8 x 180 + locknut	XY2CED	**XY2CZ403**	0.180

PF123260

XY2CZ713

PF123258

XY2CZ402
XY2CZ403
XY2CZ404

*(1) An adjustment shim **XY2CZ713** and 2 end springs **XY2CZ712** are supplied with **XY2CED** switches.*
*(2) **XY2CH13●●●** and **XY2CH14●●●** emergency stop rope pull switches incorporate a quick cable tensioner as standard. Therefore, there is no need to order a turnbuckle.*

Safety detection solutions
Emergency stop rope pull switches
XY2C range


XY2C_620_CPODA2016006

XY2CZ503
XY2CZ513


XY2C_620_CPODA2016007

XY2CZ523


PF123265

XY2CZ705


PF123264

XY2CZ601


PF123263

XY2CZ708


XY2C_620_CPODA2016008

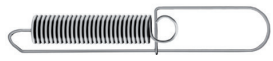
XY2CZ602


XY2C_620_CPODA2016004

XY2CZ701


PF123268

XY2CZ703


PF123266

XY2CZ702


PF123259

XY2CZ712

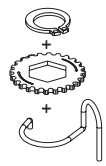
Separate parts *(continued)*

Description	Type	For use with	Unit reference	Weight kg
Set of 10 cable grips	Single	Cable Ø 3.2 mm	**XY2CZ503**	0.007
	Double	Cable Ø 3.2 mm	**XY2CZ513**	0.016
	Clamp	Cable Ø 3.2 mm	**XY2CZ523**	0.050
		Cable Ø 5 mm	**XY2CZ524**	0.080
Cable support	Fixed	All models	**XY2CZ601**	0.030
Set of 10 cable supports	Fixed	All models	**XY2CZ611**	0.032
Swiveling	–	All models	**XY2CZ602**	0.130
Pulley support	–	All models	**XY2CZ705**	0.060
Set of 10 pulley supports	–	All models	**XY2CZ715**	0.650
Pulley	Cable Ø 5 mm max.	All models	**XY2CZ708**	0.056
Set of 10 pulleys	Cable Ø 5 mm max.	All models	**XY2CZ718**	0.550
Set of 10 cable end protectors	–	Cable Ø 3.2 mm	**XY2CZ701**	0.002
		Cable Ø 5 mm	**XY2CZ704**	0.010
End spring	–	XY2CJ and XY2CH	**XY2CZ703**	0.035
		XY2CE	**XY2CZ702**	0.080
Set of 2 end springs	–	XY2CED	**XY2CZ712** *(1)*	0.220

*(1) An adjustment shim **XY2CZ713** and 2 end springs **XY2CZ712** are supplied with **XY2CED** switches.*

Safety detection solutions
Emergency stop rope pull switches
XY2C range

DF601301



XY2CZ918

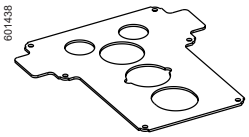
Mounting kits

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 galvanized cable + 1 clamp cable grip + 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 galvanized cable + 1 clamp cable grip + 1 tensioner **XY2CZ210** + 12 cable supports **XY2CZ601** + 1 end spring **XY2CZ703**	XY2CJ	3.2	30.5	**XY2CZ9425**	2.045
1 galvanized cable + 4 clamp cable grips + 1 turnbuckle **XY2CZ404** + 11 cable supports **XY2CZ601** + 2 cable end protectors + 1 end spring **XY2CZ702**	XY2CE	5	25.5	**XY2CZ9525**	1.853
1 galvanized cable + 4 clamp cable grips + 1 turnbuckle **XY2CZ404** + 19 cable supports **XY2CZ601** + 2 cable end protectors + 1 end spring **XY2CZ702**	XY2CE	5	50.5	**XY2CZ9550**	3.240
1 galvanized cable + 4 clamp cable grips + 1 turnbuckle **XY2CZ404** + 26 cable supports **XY2CZ601** + 2 cable end protectors + 1 end spring **XY2CZ702**	XY2CE	5	70.5	**XY2CZ9570**	4.426
2 galvanized cables + 2 clamp cable grips + 2 quick tensioners **XY2CZ213**	XY2CED	5	2 x 50.5	**XY2CZ96100**	5.910
2 galvanized cables + 2 clamp cable grips + 2 quick tensioners **XY2CZ213**	XY2CED	5	2 x 70.5	**XY2CZ96140**	8.080
2 galvanized cables + 2 clamp cable grips + 2 quick tensioners **XY2CZ213**	XY2CED	5	2 x 100.5	**XY2CZ96200**	11.340

PF123261

XY2CZ96140
XY2CZ96200

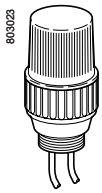
Safety detection solutions
Emergency stop rope pull switches
XY2C range



XY2CZ805

Replacement parts

Description	For use with	Type	Reference	Weight kg
Reset pushbutton (blue), spring return	XY2CE and XY2CED	Flush with "R" marked on push	**ZB5AA639**	0.018
		Booted	**ZB5AP6S**	0.019
		Mushroom head Ø 30	**ZB5AC64**	0.027
Key switch	XY2CE and XY2CED	With key no. 421	**ZB5AG612R26**	0.064
		With key no. 455	**ZB5AG6R26**	0.064
Keys for reset button	XY2CH, XY2CE and XY2CED	No. 421	**Q99900911**	0.006
		No. 455	**Q99900901**	0.006
Pilot light head assemblies	XY2CE and XY2CED	Red	**XY2CZ800**	0.015
		Orange	**XY2CZ801**	0.015
Set of 5 cover gaskets	XY2CE and XY2CED	–	**XY2CZ805**	0.122
Fixing nut, plastic, gray	XY2CE and XY2CED	–	**ZB5AZ901**	0.002
Fixing nut tightening key, plastic, gray	XY2CE and XY2CED For fixing nut ZB5AZ901		**ZB5AZ905**	0.016



XY2CZ●●●●

Description	For use with	Voltage	Order in multiple of	Unit reference	Weight kg
Pilot light with bulb DL1AA●●● included	XY2CH Color: orange	24 V ∿/⎓	–	**XY2CZ0024** *(1)*	0.035
		130 V ∿/⎓	–	**XY2CZ0130** *(1)*	0.035
		230 V ∿/⎓	–	**XY2CZ0230** *(1)*	0.035
Power LED	XY2CE and XY2CED Color: red	24 V ∿/⎓	5	**ZALVB4**	0.015
		48 to 120 V ∿	5	**ZALVG4**	0.015
		230 to 240 V ∿	5	**ZALVM4**	0.015
	XY2CE and XY2CED Color: yellow	24 V ∿/⎓	5	**ZALVB5**	0.015
		48 to 120 V ∿	5	**ZALVG5**	0.015
		230 to 240 V ∿	5	**ZALVM5**	0.015
Incandescent bulb, 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

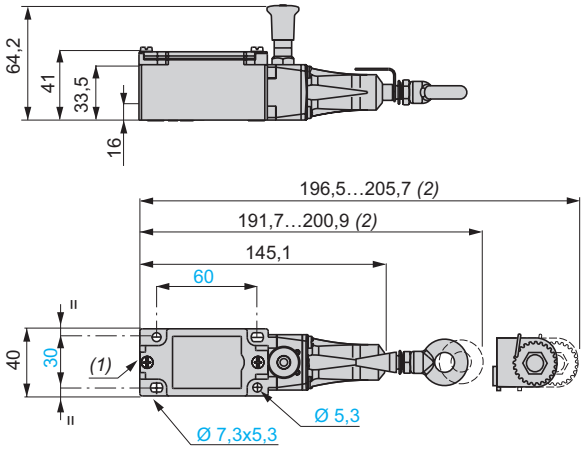
(1) Only for use as replacement parts on switches pre-equipped with pilot lights. CCC approval no longer applies if an ***XY2CZ●●●*** *pilot light is mounted on XY2CH switches.*

Safety detection solutions
Emergency stop rope pull switches
XY2C range

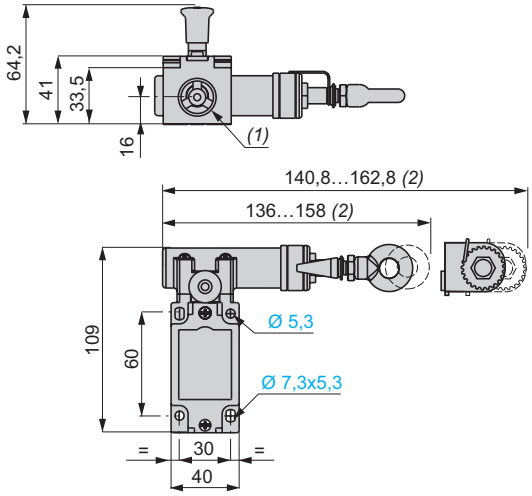
Emergency stop rope pull switches with single anchor point

XY2CJ

XY2CJS●●

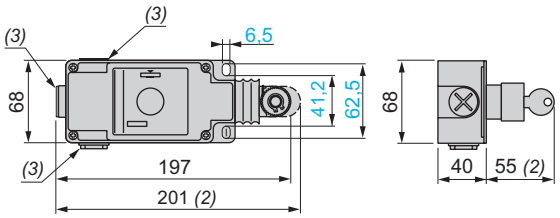


XY2CJR●● and **XY2CJL●●** (same dimensions with anchor point on RH side or LH side)

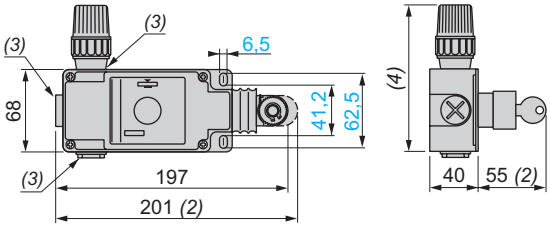


XY2CH

Without pilot light

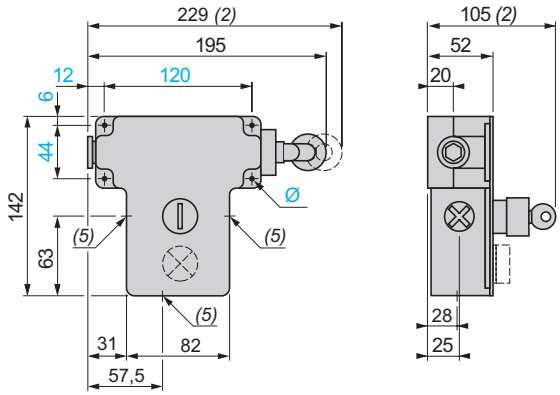


With pilot light



XY2CE

XY2CE1A●●● and **XY2C2A●●●** (same dimensions with anchor point on RH side or LH side)

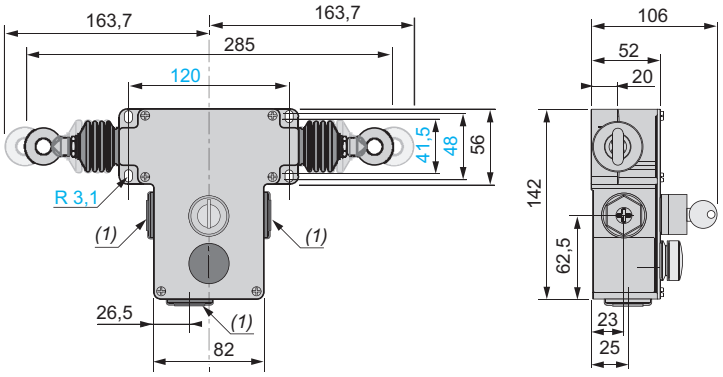


*(1) Tapped entries for no. 13 cable gland (Pg 13.5). For ISO M20, the reference becomes **XY2CJ●●●H29.** For 1/2" NPT, the reference becomes **XY2CJ●●●H7**.*
(2) Maximum extension.
*(3) Tapped entries for no. 13 cable gland (Pg 13.5). For ISO M20, the reference becomes **XY2CH●●●H29**. For 1/2" NPT, the reference becomes **XY2CH●●●H7**.*
(4) 121 mm: 24 V and 48 V versions. 131 mm: 130 V and 230 V versions.
*(5) 3 untapped holes for no. 13 (Pg 13.5) or ISO M20 cable gland. For 1/2" NPT, the reference becomes **XY2CE●●●H7** or **XY2CED●●●H7**.*
Ø: 4 elongated holes Ø 6 mm.

Emergency stop rope pull switches with double anchor point

XY2CED

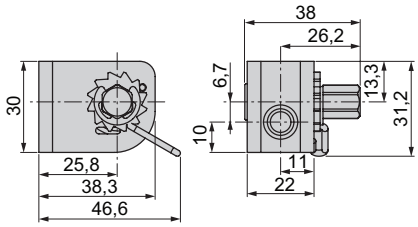
XY2CEDA●●● and XY2CEDC●●●



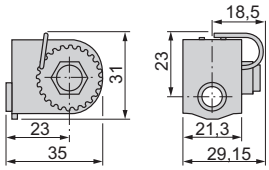
Accessories

Quick tensioners

XY2CZ213

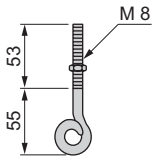


XY2CZ210

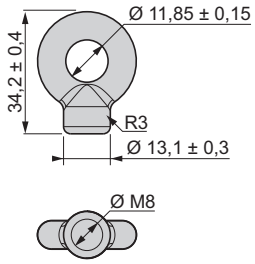


Cable and pulley supports

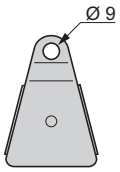
XY2CZ705



XY2CZ601



XY2CZ708



*(1) 3 untapped holes for no. 13 (Pg 13.5) or ISO M20 cable gland. For 1/2" NPT, the reference becomes **XY2CE●●●H7** or **XY2CED●●●H7**.*

Product reference index

Schneider Electric Industries SAS

Head Office
35, rue Joseph Monier
F-92500 Rueil-Malmaison
France

www.tesensors.com

Design: Schneider Electric
Photos: Schneider Electric

February 2020 - V5.0

DIA4ED2151201EN