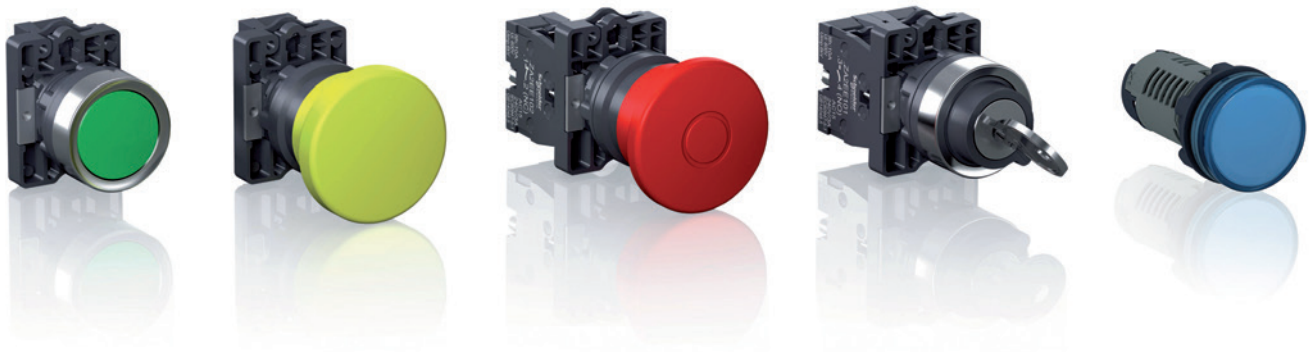# Control and signaling
Harmony Easy XA2

Ø 22 mm, plastic pushbuttons, switches and pilot lights
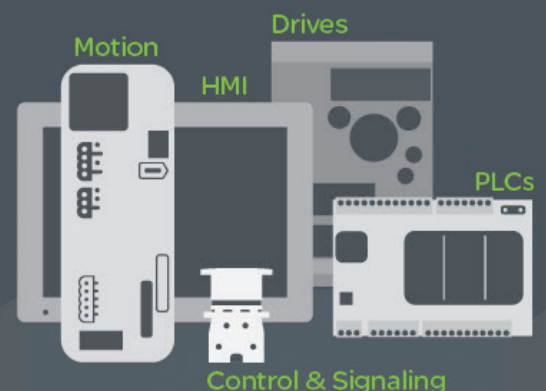
Catalog

December 2017

Introducing the **Easy** line
Essential automation & control products

When just enough is just right!

Motion
Drives
HMI
PLCs
Control & Signaling

Schneider Electric

General contents

Harmony™ Easy XA2

Control and signaling units Ø 22
Harmony Easy XA2, plastic
Pushbuttons, switches and pilot lights

Harmony Easy XA2:
- modular, plastic pushbuttons and switches with metallic-look ring,
- complete, plastic pilot lights with integral LED

Fit for purpose

All the products composing the Harmony™ Easy XA2 range have been designed to be used in numerous control and signaling applications:
> customers can easily select the key functions for standard applications
> their diameter, Ø 22 mm /0.866 in. makes them suitable for standard OEM and panel builder applications.
> with plastic material, they provide a solution for industrial applications demanding a high resistance to chemical agents.

Ease and comfort of choice

The range is available in the form of complete units. It involves:
> modular, plastic pushbuttons and switches with metallic-look ring
The modular design allows flexible and simple setup for complete products: the right product can be chosen among various types of heads and 2 types of functions are proposed (contact and signaling)
> complete pilot lights, provided with integral LED.

All products are fitted with screw clamp terminals allowing fast and easy connection.

Contact functions

- Pushbuttons with spring return and push-push (marked or unmarked)

- Selector switches and key switches, 2 or 3 positions

- Emergency switching off pushbuttons with push-pull and turn to release

Contact and signaling functions

- Illuminated pushbuttons with integral LED, spring return and flush push

Signaling functions
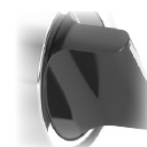
- Pilot lights with integral LED

Groomed ergonomics

> Metallic-look ring on pushbuttons and switches gives a modern look
> Ergonomic curve on the selector switches allows flexible operation

Metallic-look ring

Ergonomic curve

Pushbuttons and switches with metallic-look ring design

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Control and signaling units Ø 22
Harmony Easy XA2, plastic
Pushbuttons, switches and pilot lights

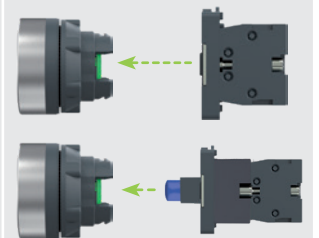## Easy installation

> Installation of pushbuttons is simple and easy
> Mounting by single nut to the control panel
> Anti-rotation plate prevents the pushbutton head from rotation

- Single lock ring for mounting on control panel

- Clip-together component system for head, body, contacts, and LED light blocks

Proven robustness

> Conforming to most demanding international standards and approvals
> Tested and certified performance
> Excellent resistance to mechanical shock and vibration
> Supports extended temperature range from − 40° C to + 70° C

STANDARDS

GB/14048.5-93 — IEC 60947-5-1/60529
GB/T14048.1-93 — EN 60947-5-1
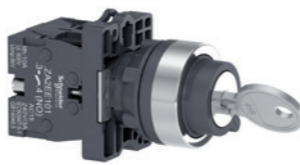
Helps customer to improve the reliability
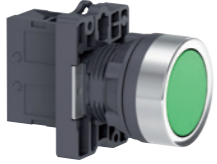
Service and availability

> Supported by the service of Schneider Electric
> Wide availability throughout an extensive distribution network

Up to IP 65 degree of protection

Control and signaling units Ø 22

Harmony Easy XA2, plastic
Pushbuttons, switches and pilot lights

Type of products	Contact functions		
	Pushbuttons	**Emergency switching off pushbuttons**	**Selector and key switches**
Description of range	■ Pushbuttons, spring return: flush push, mushroom head, and push-push	■ Emergency switching off pushbuttons: turn to release and push-pull	■ Selector switches, 2 or 3-position: standard or long handle ■ Key switches
Features Products	Complete units		
Shape of head	Circular		
Drilling or cut-out for mounting	Ø 22 mm/*0.866 in.*		
Degree of protection	IP 65 conforming to standard IEC 60529		IP 54 conforming to standard IEC 60529 Selector switches: IP 65 Key switches: IP 54
Internationl standards	IEC 60947-5-1, EN 60947-5-1, GB/T 14048.1-93, GB/14048.5-93		
Product certification	CCC, EAC, CE		
Cabling	Screw clamp terminal connections		
Mounting Panel thickness	Ø 1 to 6 mm/ *0.04 to 0.24 in.*		
Type references	**XA2EA●●/EA●●●●/EC●●/** **XA2ER●●/EH0●●**	**XA2ET●●/ES●●●**	**XA2ED●●/EJ●●/EG●●**
Pages	9	10	11

Contact and signaling functions	Signaling functions
Illuminated pushbuttons	**Pilot lights**
■ Illuminated pushbuttons with integral LED, spring return: flush push	■ Pilot lights with integral LED
Complete units	
Circular	
Ø 22 mm/*0.866 in.*	
IP 65 conforming to standard IEC 60529	IP 40 conforming to standard IEC 60529
IEC 60947-5-1, EN 60947-5-1, GB/T 14048.1-93, GB/14048.5-93	
CCC, EAC, CE	
Screw clamp terminal connections	
Ø 1 to 6 mm/*0.04 to 0.24 in.*	
XA2EW3●●●	**XA2EV●●●LC,** **XA2EV●D●LC**
12	13

General

Control and signaling units Ø 22
Harmony Easy XA2, plastic
Pushbuttons, switches and pilot lights

Presentation

The Harmony Easy XA2 range of Ø 22/0.866 in. plastic control and signaling units combines simplicity of installation, flexibility and robustness. It meets the requirements of the majority of industrial applications. The metallic-look ring design on the pushbuttons and switches gives them a modern look. These products are available in the form of complete units.

■ This range includes:
□ Pushbuttons, selector/key switches, Emergency switching off pushbuttons for Start/Stop control of machines and installations, adjustment, and parametering (contact functions),
□ Illuminated pushbuttons for control and signaling (contact functions and signaling functions),
□ Pilot lights (signaling functions).

■ The pushbutton, switch (illuminated and non-illuminated) and pilot light control offer comprises:
□ Flush, spring return marked and unmarked pushbuttons, mushroom head spring return pushbuttons,
□ Illuminated pushbuttons, spring return, with integral LED,
□ Ø 40/1.575 in., Ø 30/1.181 in., and Ø 60/2.362 in. Emergency switching off pushbuttons,
□ Selector switches with standard and long handle,
□ Key switches,
□ Pilot lights with integral LED,
□ Various accessories.

Installation

■ Harmony Easy XA2 products are both simple and quick to install:
□ Mounting by a single nut to the control panel,
□ Body/fixing collar simply clip on the head,
□ Anti-loosening system for screw clamp terminals of contact blocks.

■ Type of connection:
□ screw clamp terminals.

Environment

The performance features of the Harmony Easy XA2 range meets the following specifications:

■ Degrees of protection conforming to standard IEC 60529:
□ IP 65 for pushbuttons, Emergency switching off pushbuttons, illuminated pushbuttons
□ IP 54 for key select switch
□ IP 40 for pilot lights

■ International standards:
□ IEC 60947-5-1, EN 60947-5-1, GB/T 14048.1-93, GB/14048.5-93

■ Product certification:
□ CCC, EAC, C€

For more technical information, please refer to our website www.schneider-electric.com.
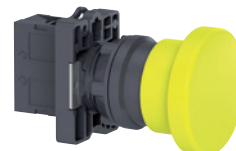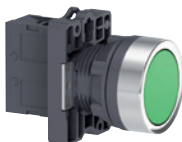
Control and signaling units Ø 22
Harmony Easy XA2, plastic
Pushbuttons, switches and pilot lights: complete units

Description		The Ø 22/*0.866 in.* range of control and signaling units comprises complete units

Functions

Contact functions

Pushbuttons, spring return

Type of push	Flush push, unmarked	Flush push, marked	Mushroom head
Degree of protection	IP 65	IP 65	IP 65
Color	White, Black, Green, Yellow, Blue, and Red	Green, Black, White, and Red	Black, Green, Red, and Yellow
Reference	**XA2EA●1/EA42**	**XA2EA33●1/EA43●2**	**XA2EC●1/EC42/ER21**
Pages	9		

Pushbuttons, push-push

Type of push	Push-push
Degree of protection	IP 65
Color	White, Black, Green, Yellow, Blue, and Red
Reference	**XA2EH0●1/EH042**
Pages	10

Emergency switching off pushbuttons

Type of push	Turn to release and push-pull (Ø 30 mm/*1.181 in.*, Ø 40 mm/*1.575 in.*, Ø 60 mm/*1.362 in.*)
Degree of protection	IP 65
Color	Red and Black
Reference	**XA2ET42/ES●42/ES422**
Pages	10

General (continued)

Control and signaling units Ø 22
Harmony Easy XA2, plastic
Pushbuttons, switches and pilot lights: complete units

Functions (continued)

Contact functions (continued)
Selector or key switches, 2 or 3-position

	Standard handle	Long handle	Key
Type of push	Standard handle	Long handle	Key
Degree of protection	IP 65	IP 65	IP 54
Reference	**XA2ED●●**	**XA2EJ●●**	**XA2EG21/EG●3**
Page	11		

Combined functions: contact and signaling
Illuminated pushbuttons, spring return

Type of push	Flush push
Degree of protection	IP 65
LED	Integral LEDs, 24, 220-230 or 380-400 V
Color	White, Green, Red, Yellow, and Blue
Reference	**XA2EW3●B1/3●M1/ 3●Q1**
Pages	12

Signaling functions
Pilot lights

Degree of protection	IP 40
LED	Integral LEDs, 24, 110, 220-230 or 380-400 V
Color	White, Green, Red, Orange, Blue, and Yellow
Reference	**XA2EV●●LC/EV●D●LC**
Pages	13

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References

Control and signaling units Ø 22

Harmony Easy XA2, plastic
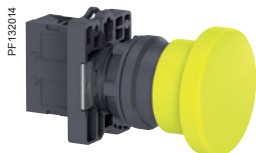Spring return pushbuttons, marked and unmarked
Mushroom head pushbuttons, spring return
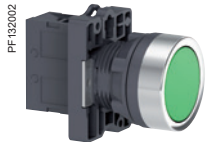
XA2EA31

XA2EA4342

XA2EC51

Spring return pushbuttons with flush push

Shape of head	Type of contacts N/O	Type of contacts N/C	Color of push	Marking	Reference	Weight kg/*lb*
Unmarked						
	1	–	White	–	**XA2EA11**	0.032/*0.071*
			Black	–	**XA2EA21**	0.032/*0.071*
			Green	–	**XA2EA31**	0.032/*0.071*
			Yellow	–	**XA2EA51**	0.032/*0.071*
			Blue	–	**XA2EA61**	0.032/*0.071*
	–	1	Red	–	**XA2EA42**	0.032/*0.071*
Marked						
	1	–	Green	"I"	**XA2EA3311**	0.032/*0.071*
	1	–	Black	"↑"	**XA2EA3351**	0.032/*0.071*
	1	–	White	"↑"	**XA2EA3341**	0.032/*0.071*
	–	1	Red	"O"	**XA2EA4322**	0.032/*0.071*
	–	1	Red	"STOP"	**XA2EA4342**	0.032/*0.071*

Mushroom head pushbuttons, spring return

Shape of head	Type of contacts N/O	Type of contacts N/C	Color of push	Diameter Ø (mm)/*in.*	Reference	Weight kg/*lb*
	1	–	Black	40/*1.575*	**XA2EC21**	0.052/*0.115*
	1	–	Green	40/*1.575*	**XA2EC31**	0.052/*0.115*
	–	1	Red	40/*1.575*	**XA2EC42**	0.052/*0.115*
	1	–	Yellow	40/*1.575*	**XA2EC51**	0.052/*0.115*
	1	–	Black	60/*2.362*	**XA2ER21**	0.058/*0.128*

Note: Please refer to our website www.schneider-electric.com for information on dimensions

Control and signaling units Ø 22

Harmony Easy XA2, plastic
Pushbuttons, push-push
Emergency switching off pushbuttons

PF-132017

XA2EH021

PF-132022

XA2ET42

Pushbuttons, push-push with flush push

Shape of head	Type of contacts		Color of push	Reference	Weight kg/*lb*
	N/0	N/C			
	1	–	White	**XA2EH011**	0.04/*0.088*
	1	–	Black	**XA2EH021**	0.04/*0.088*
	1	–	Green	**XA2EH031**	0.04/*0.088*
	–	1	Red	**XA2EH042**	0.04/*0.088*
	1	–	Yellow	**XA2EH051**	0.04/*0.088*
	1	–	Blue	**XA2EH061**	0.04/*0.088*

Emergency switching off pushbuttons

Shape of head	Type of push	Type of contacts N/C	Color	Diameter Ø (mm)/*in.*	Reference	Weight kg/*lb*
	Push-pull	1	Red	40/*1.575*	**XA2ET42**	0.088/*0.194*
	Turn to release	1	Red	30/*1.181*	**XA2ES442**	0.056/*0.123*
			Red	40/*1.575*	**XA2ES542**	0.058/*0.128*
			Red	60/*2.362*	**XA2ES642**	0.064/*0.141*
			Black	30/*1.181*	**XA2ES422**	0.056/*0.123*

Note: Please refer to our website www.schneider-electric.com for information on dimensions

Control and signaling units Ø 22
Harmony Easy XA2, plastic
Selector switches, with standard or long handle
Key switches

PF132031

XA2ED53

PF132041

XA2EG03

Selector switches, with standard handle or with long handle

Shape of head	Type of push	Type of contacts N/O	Type of contacts N/C	Number and type of positions	Reference	Weight kg/*lb*
	Standard handle	1	–	2 - stay put	XA2ED21	0.04/*0.088*
		1	1	2 - stay put	XA2ED25	0.054/*0.119*
		2	–	3 - stay put	XA2ED33	0.054/*0.119*
		2	–	3 - spring return from 2 sides	XA2ED53	0.054/*0.119*
		1	–	2 - spring return	XA2ED41	0.041/*0.090*
	Long handle	1	–	2 - stay put	XA2EJ21	0.041/*0.090*
		1	1	2 - stay put	XA2EJ25	0.041/*0.090*
		2	–	3 - stay put	XA2EJ33	0.055/*0.121*
		2	–	3 - spring return from 2 sides	XA2EJ53	0.055/*0.121*
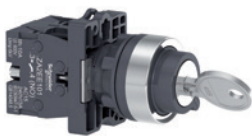
Key switches

Shape of head	Type of push	Type of contacts N/O	Type of contacts N/C	Number and type of positions	Reference	Weight kg/*lb*
	Key	1	–	2 - stay put, one side pull-out	XA2EG21	0.064/*0.141*
		2	–	2 - stay put, two sides pull-out	XA2EG43	0.078/*0.172*
		2	–	2 - spring return, one side pull-out	XA2EG63	0.078/*0.172*
		2	–	3 - spring return from 2 sides, middle pull-out	XA2EG73	0.078/*0.172*
		2	–	3 - stay put, middle pull-out	XA2EG33	0.078/*0.172*
		2	–	3 - stay put, 3 sides pull-out	XA2EG03	0.078/*0.172*

Note: Please refer to our website www.schneider-electric.com for information on dimensions

Control and signaling units Ø 22

Harmony Easy XA2, plastic
Illuminated pushbuttons with flush push
Bulbs for illuminated pushbuttons
Contact functions for all XA2 pushbuttons and switches

XA2EW36B1

DL1LED244

DL1LED246

ZB5AZ905

ZB5AZ902

ZA2EE102

Illuminated pushbuttons with integral LED

Shape of head	Type of push	Supply voltage V	Type of contacts N/O	Type of contacts N/C	Color	Reference	Weight kg/lb
	Flush push	∿ / ⎓ 24	1		White	**XA2EW31B1**	0.056/0.123
					Green	**XA2EW33B1**	0.056/0.123
					Red	**XA2EW34B1**	0.056/0.123
					Yellow	**XA2EW35B1**	0.056/0.123
					Blue	**XA2EW36B1**	0.056/0.123
				1	Red	**XA2EW34B2**	0.056/0.123
		∿ 220-230	1		White	**XA2EW31M1**	0.064/0.141
					Green	**XA2EW33M1**	0.064/0.141
					Red	**XA2EW34M1**	0.064/0.141
					Yellow	**XA2EW35M1**	0.064/0.141
					Blue	**XA2EW36M1**	0.064/0.141
				1	Red	**XA2EW34M2**	0.056/0.123
		∿ 380-400	1		White	**XA2EW31Q1**	0.064/0.141
					Green	**XA2EW33Q1**	0.064/0.141
					Red	**XA2EW34Q1**	0.064/0.141
					Yellow	**XA2EW35Q1**	0.064/0.141
					Blue	**XA2EW36Q1**	0.064/0.141
				1	Red	**XA2EW34Q2**	0.056/0.123

Bulbs with BA 9s base fitting and associated accessories

Description	Characteristics	Color	Sold in lots of	Unit reference	Weight kg/lb
LEDs	∿ / ⎓ 24 V	White	**10**	**DL1LED241**	0.002/0.004
		Green	**10**	**DL1LED243**	0.002/0.004
		Red	**10**	**DL1LED244**	0.002/0.004
		Yellow	**10**	**DL1LED245**	0.002/0.004
		Blue	**10**	**DL1LED246**	0.002/0.004

Description	Application		Sold in lots of	Unit reference	Weight kg/lb
Bezel tool	Tightening head fixing nut		**1**	**ZB5AZ905**	0.016/0.035
Anti-rotation plate	Prevents head from rotation		**10**	**ZB5AZ902**	0.008/0.018

Contact functions (for all XA2 pushbuttons and switches)

Screw clamp terminal connections

Description	To be used with	Type of contacts N/O	Type of contacts N/C	Sold in lots of	Unit reference	Weight kg/lb
Contact blocks	**All XA2 pushbuttons and switches**	1	–	**1**	**ZA2EE101**	0.014/0.031
		–	1	**1**	**ZA2EE102**	0.014/0.031

Note: Please refer to our website www.schneider-electric.com for information on dimensions

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Control and signaling units Ø 22
Harmony Easy XA2, plastic
Pilot lights with integral LED

XA2EV••3LC

XA2EV••5LC

XA2EV••8LC

Pilot lights with integral LED

Shape of head	Supply voltage V	Color of lens	Sold in lots of	Reference	Weight kg/lb
	∼ / ⎓ 24	White	10	XA2EVB1LC	0.017/0.037
		Green	10	XA2EVB3LC	0.017/0.037
		Red	10	XA2EVB4LC	0.017/0.037
		Orange	10	XA2EVB5LC	0.017/0.037
		Blue	10	XA2EVB6LC	0.017/0.037
		Yellow	10	XA2EVB8LC	0.017/0.037
	∼ 110	White	10	XA2EVF1LC	0.017/0.037
		Green	10	XA2EVF3LC	0.017/0.037
		Red	10	XA2EVF4LC	0.017/0.037
		Orange	10	XA2EVF5LC	0.017/0.037
		Blue	10	XA2EVF6LC	0.017/0.037
		Yellow	10	XA2EVF8LC	0.017/0.037
	⎓ 110	White	10	XA2EVFD1LC	0.017/0.037
		Green	10	XA2EVFD3LC	0.017/0.037
		Red	10	XA2EVFD4LC	0.017/0.037
		Orange	10	XA2EVFD5LC	0.017/0.037
		Blue	10	XA2EVFD6LC	0.017/0.037
		Yellow	10	XA2EVFD8LC	0.017/0.037
	∼ 220-230	White	10	XA2EVM1LC	0.017/0.037
		Green	10	XA2EVM3LC	0.017/0.037
		Red	10	XA2EVM4LC	0.017/0.037
		Orange	10	XA2EVM5LC	0.017/0.037
		Blue	10	XA2EVM6LC	0.017/0.037
		Yellow	10	XA2EVM8LC	0.017/0.037
	⎓ 220	White	10	XA2EVMD1LC	0.017/0.037
		Green	10	XA2EVMD3LC	0.017/0.037
		Red	10	XA2EVMD4LC	0.017/0.037
		Orange	10	XA2EVMD5LC	0.017/0.037
		Blue	10	XA2EVMD6LC	0.017/0.037
		Yellow	10	XA2EVMD8LC	0.017/0.037
	∼ 380-400	White	10	XA2EVQ1LC	0.017/0.037
		Green	10	XA2EVQ3LC	0.017/0.037
		Red	10	XA2EVQ4LC	0.017/0.037
		Orange	10	XA2EVQ5LC	0.017/0.037
		Blue	10	XA2EVQ6LC	0.017/0.037
		Yellow	10	XA2EVQ8LC	0.017/0.037

Note: Please refer to our website www.schneider-electric.com for information on dimensions

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