Catalog | September 2020



Harmony XAW ATEX D

Complete metal or plastic station for explosive atmospheres





Discover Harmony

Advanced operator interface and industrial relays

Harmony operator interface and industrial relays enhance operational efficiency and equipment availability across industrial and building applications. Harmony includes intelligent connected products and edge terminals that visualize, gather and process data, enabling informed operator decisions.

Explore our offer

- Harmony Push Buttons and Switches
- Harmony HMI Operator Terminals, IPC and EdgeBox
- Harmony Signaling Devices
- Harmony Electrical Relays
- Harmony Safety



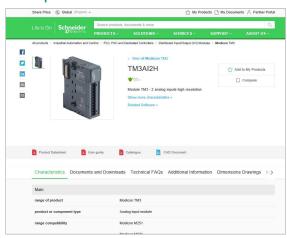


Get technical information about your product



Each commercial reference presented in a catalog contains a hyperlink. Click on it to obtain the technical information of the product:

- Characteristics, Dimensions and drawings, Mounting and clearance,
 Connections and schemas, Performance curves
- Product image, Instruction sheet, User guide, Product certifications, End of life manual



Find your catalog



- With just 3 clicks, you can access the Industrial Automation and Control catalogs, in both English and French
- > Consult digital automation catalogs at Digi-Cat Online



- Up-to-date catalogs
- Embeded product selectors,360° pictures
- · Optimized search by commercial references

Select your training



- > Find the right Training for your needs on our Global website
- > Locate the training center with the selector tool, using this link





General contents

Harmony XAW ATEX D

	Presentation	page 2
R	eferences	
	Metal control stations XAWF ATEX Dust	
	One function, Emergency stop	page 4
	Two functions, Start and Stop	page 4
	Three functions, Start and Stop	page 4
	Plastic control stations XAWG ATEX Dust	
	One function, Start	page 5
	One function, Emergency stop	page 5
	Two functions, Start and Stop	page 5
	Tree functions, Start and Stop	page 5
	Due de et reference in des	

Harmony XAW ATEX D

Complete metal or plastic stations for explosive atmospheres



Harmony XAW ATEX D, Complete metal or plastic station for explosive atmospheres

Presentation

The Harmony® XAW ATEX D range of complete control stations equipped with Harmony XB4 ATEX D are designed for industries with explosive atmospheres. They are ideal for use in environments where the generation of possible ignition sources can be prevented and controlled.

This range meets the ATEX dust offer standard compliant with European Directive 2014/34/EU, Zone 21/22.

This range offers products with the following functions:

- Non-illuminated pushbuttons
- Selector and key switches
- Emergency stop functions

Explosive atmosphere and ignition sources

According to the directive, a potentially explosive atmosphere is the mixture of air with flammable substances in the form of dust, that when exposed to an ignition source under normal atmospheric conditions can completely or partially catch fire and explode.

The types of ignition sources that can create an explosive atmosphere are:

- Hot surfaces
- Flames and hot gases
- Mechanically produced sparks
- Electrical equipment
- Transient currents
- Static electricity

- Lightning strikes
- Electromagnetic waves
- Optical radiation
- Ultrasound
- Chemical reactions
- People (indirectly)

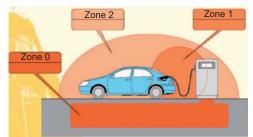
Explosive atmospheres are found in areas like:

- Metal surface grinding, especially aluminum dust and particles
- Oil refineries, rigs and processing plants
- Gas pipelines and distribution centers ■
- Printing industries, paper and textiles ■
- Aircraft refueling and hangars
- Chemical processing plants
- Grain handling and storage
- Sewage treatment plants
- Surface coating industries
- Underground coal minesWood working areas
- Sugar refineries
- Vessels/ships
- Power plants

Explosive atmosphere IECEx zones and NEC 500 class and divisions

Explosive atmospheres are classified into the following categories and zones:

Category	Level of risk	IECEx/UL	NEC 500	
	High	Zone 0		
Gas	Medium	Zone 1	Class 1 div 1	
	Low	Zone 2	Class 1 div 2	
	High	Zone 20		
Dust	Medium	Zone 21	Class 2 div 1	
	Low	Zone 22	Class 2 div 2 Class 3 (fibers)	



Example of hazardous gas and vapor zone



Example of hazardous dust zone

Harmony XAW ATEX D

Complete metal or plastic stations for explosive atmospheres

Presentation (continued)

Explosive atmosphere certification

Equipment made for use in potentially hazardous areas is obliged to follow a dedicated procedure for testing & inspection. Following the results of this procedure, the XB4 explosive atmosphere range obtained the following certificates:

- ATEX dust offer
- ATEX certificate: 04ATEX9004U

Applications

- Industrial applications
- □ Food & Beverage
- □ Oil & Gas, including petrochemical extraction & transformation, car gas stations and gas bottling plants
- □ Chemicals
- □ Printing
- □ Paint manufacturing lines



Food & Beverage



Printing



Oil & Gas



Paint manufacturing

For more technical information, please refer to the <u>Harmony XAW ATEX D</u> offers page on the Schneider Electric website.

Harmony XAW ATEX DComplete metal or plastic stations

t

Type of

Reference

Weight

for explosive atmospheres Metal control stations XAWF ATEX Dust

Dimensions

Metal control stations

Marking

Base of

Composition









XAWF310EX

	on enclosure legend and cover color	(w x h x d) mm/ <i>in</i> .	connector		gland (ISO standard)		kg/ <i>lb</i>	
		COIOT		NO	r NC			
One function, E	mergeno	y stop (1)						
1 mushroom head Ø 40 mm push-button, trigger action, turn to release, red	-	Black	80 x 80 x 77/ 3.15 x 3.15 x 3.03	-	2	M20 (x1)	XAWF178EX	0.830 /1.830
1 mushroom head Ø 40 mm push-button, trigger action, key release, red	-	Black	80 x 80 x 77/ 3.15 x 3.15 x 3.03	_	2	M20 (x1)	XAWF188EX	0.830 /1.830
1 mushroom head Ø 40 mm push-button, trigger action, push-pull, red	-	Black	80 x 80 x 77/ 3.15 x 3.15 x 3.03	-	2	M20 (x1)	XAWF198EX	0.830 /1.830
Two functions,	start and	stop						
1 selector switch with standard handle, 2 position stay-put	0-1	Black	80 x 80 x 77/ 3.15 x 3.15 x 3.03	1	1	M20 (x1)	XAWF130EX	0.856 /1.887
1 flush push button, booted, spring return, green,	0	Black	80 x 130 x 77/ 3.15 x 5.12 x 3.03	1	1	M20 (x1)	XAWF210EX	1.135 /2.502
1 flush push button, booted, spring return, red	I							
Three functions	, start ar	nd stop						
1 flush push button, booted, spring return, green,	I	Black	80 x 175 x 77/ 3.15 x 6.89 x 3.03	1	-	M20 (x1)	XAWF310EX	1.545 /3.406
1 flush push button, booted, spring return, red,	0			-	1			
1 flush push button, booted, spring return, black	П			1	-			

Harmony XAW ATEX D Complete metal or plastic stations

st

for explosive atmospheres
Plastic control stations XAWG ATEX Dust



XAWG100EX



XAWG178EX



XAWG130EX



XAWG310EX

Plastic control stations								
Composition		enclosure and cover	re (wxhxd)	Type of connector		Cable gland (ISO standard)	Reference	Weight kg/lb
		color		NO	r NC			
One function, st	art							
1 flush push button, booted, spring return, green	I	Black	85 x 70 x 146/ 3.35 x 2.75 x 5.75	1	-	M20 (x1)	XAWG100EX	0.830 /1.830
One function, E	mergeno	cy stop (1)						
1 mushroom head Ø 40 mm push-button, trigger action, turn to release, red	-	Black	85 x 70 x 146/ 3.35 x 2.75 x 5.75	-	2	M20 (x1)	XAWG178EX	0.830 /1.830
1 mushroom head Ø 40 mm push-button, trigger action, key release, red	-	Black	85 x 70 x 146/ 3.35 x 2.75 x 5.75	-	2	M20 (x1)	XAWG188EX	0.830 /1.830
1 mushroom head Ø 40 mm push-button, trigger action, push-pull, red	-	Black	85 x 70 x 146/ 3.35 x 2.75 x 5.75	-	2	M20 (x1)	XAWG198EX	0.830 /1.830
Two functions, s	start and	stop						
1 selector switch with standard handle, 2 position stay-put	0-1	Black	85 x 70 x 146/ 3.35 x 2.75 x 5.75	1	1	M20 (x1)	XAWG130EX	0.856 /1.887
1 flush push button, booted, spring return, green,	I	Black	85 x 70 x 146/ 3.35 x 2.75 x 5.75	1	1	M20 (x1)	XAWG210EX	1.135 /2.502
1 flush push button, booted, spring return, red	Ο							
Three functions, start and stop								
1 flush push button, booted, spring return, green,	I	Black	85 x 70 x 226/ 3.35 x 2.75 x 8.90	1	-	M20 (x1) XAWG310	XAWG310EX	1.545 /3.406
1 flush push button, booted, spring return, red,	0			-	1			
1 flush push button, booted, spring return, black	П			1	_			

⁽¹⁾ Conformity to standards EN/IEC 60204-1, EN/ISO 13850, EN/IEC 60947-5-5 and to Machinery directive 2006/42/ CE

Product reference index

X	
XAWF130EX	4
XAWF178EX	4
XAWF188EX	4
XAWF198EX	4
XAWF210EX	4
XAWF310EX	4
XAWG100EX	5
XAWG130EX	5
XAWG178EX	5
XAWG188EX	5
XAWG198EX	5
XAWG210EX	5
XAWG310EX	5





Learn more about our products at www.schneider-electric.com

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Design: Schneider Electric Photos: Schneider Electric

Schneider Electric Industries SAS

Head Office 35, rue Joseph Monier - CS 30323 F-92500 Rueil-Malmaison Cedex France

DIA5ED2200501EN September 2020 - V1.0