

It's time for easy and reliable crane control

Harmony™ eXLhoist

Wireless remote control for hoisting applications



Schneider
Electric™

Introducing Harmony eXLhoist – the complete solution for reliable and intuitive crane control

How do you increase the ease of controlling your hoisting operation without compromising safety? Meet **Harmony eXLhoist**, the innovative wireless remote control solution from Schneider Electric. We have designed it on the back of our extensive experience in the hoisting market to make controlling cranes both easier and safer.

With **Harmony eXLhoist**, you have everything you need to build a complete operator solution that will maximize the efficiency of your hoisting application:

> Ergonomy

Designed for intuitive operation

Intuitive
**one-hand
operation**

The buttons of Harmony eXLhoist are positioned in a way that enables easy one-hand operation. It allows the operator to control the crane without focusing on the buttons and **to concentrate on the load instead.**



> Operator protection

Robust performance and safety compliance

Wireless
e-stop
**compliant
with SIL3**

Harmony eXLhoist **prevents from unexpected operations** and protects your operator, equipment, and load:

- In-built protection against unintended operation is compliant with SIL1, PL c,
- Wireless emergency stop is certified SIL3, PL e,
- Aligned with new wireless safety standards.



> Availability

Maximize the uptime of application

Thanks to innovative battery technology, you **gain a very high ratio:** time to charge/autonomy. Charge time for the battery is only 15 minutes, so you do not need a back-up.

The estimated lifetime of the eXLhoist battery is around five years, which is double the life of a traditional battery.



30h runtime
15min to recharge
5 years of life

> Universal

Unrestricted worldwide use with a global frequency

Harmony eXLhoist uses the globally compatible 2.4GHz frequency, meaning you can deploy the **same solution worldwide** and standardize your spare parts stock. It also prevents interference between many remote control stations, **allowing up to 50 systems running simultaneously.**



2.4GHz
frequency

Up to 50
systems at the
same time

> Easy maintenance

All the key diagnostic data at your fingertips

With Harmony eXLhoist, you will **reduce downtime** thanks to remote diagnostics capabilities and a discovering function, which enables automatic remote device replacement without intervention at the base station.



Instant alarm
notification by
vibration

> Complete offer

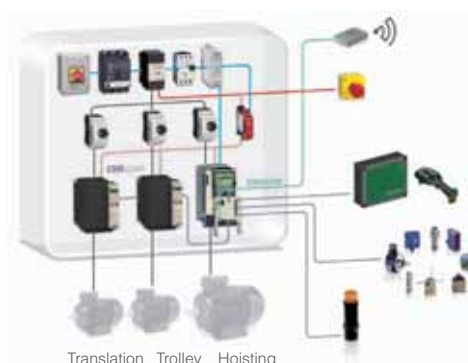
Reduce time to market with a one-stop shop for all your hoisting needs

Schneider Electric is the only worldwide automation supplier to offer a **complete range of hoisting solutions**, from simple control systems to global automation solutions. Benefit from our expertise and many years of experience in the market to help you find the right solution at every stage of your installation life cycle.



Available
worldwide

Tested,
Validated, and
Documented
Architectures
for optimised
results





Discover the Harmony range of hoisting control solutions:



Wireless remote control stations



Pendant stations

8 pushbuttons (2 auxiliary) LEDs		XARS8L12W 12 output relays	Simple auxiliary functions Wiring connections
		XARS8L12H 12 output relays	Simple auxiliary functions Industrial plug connections
8 pushbuttons (2 auxiliary) Display		XARS8D18W 18 output relays 18 digital inputs	Simple auxiliary functions Wiring connections Dedicated safety functions
		XARS8D18H 18 output relays 18 digital inputs	Simple auxiliary functions Industrial plug connections Dedicated safety functions
12 pushbuttons (6 auxiliary) Display		XARS12D18W 18 output relays 18 digital inputs	Extended auxiliary functions Wiring connections Dedicated safety functions
		XARS12D18H 18 output relays 18 digital inputs	Extended auxiliary functions Industrial plug connections Dedicated safety functions.



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Due to evolution of standards and equipment, characteristics indicated in the text and images in this document are subject to confirmation by our departments.

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Photos: Schneider Electric

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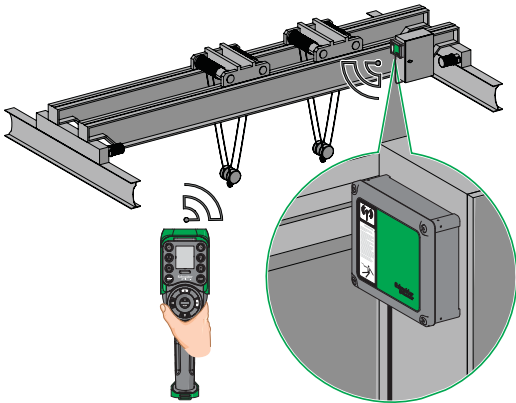
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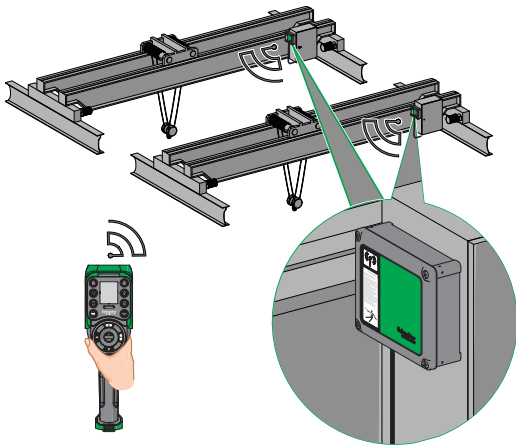
Operator control stations

Wireless remote control system

Harmony eXLhoist



Example of single mode



Example of MBC mode



Configuration software window

Presentation

The Harmony eXLhoist range of wireless remote control systems provides complete innovative crane operator control solutions to help improve machine and crane operator efficiency, protect people and equipment, and reduce installation and maintenance downtime.

The XARS remote control system is a combination of remote control device (or transmitter: XART) and base station (or receiver: XARB), which transmits commands and information from the operator to the machine and vice versa by wireless transmission.

The XARS system offers movement in 3 directions (for example: hoist, bridge, and trolley) at 2 speeds (low and high) for each movement.

The 2 modes available in the system are:

- b Single mode: The remote control device controls one base station.
- b MBC mode (1): The remote control device controls 2 base stations simultaneously.

Radio communication

Each base station has a unique identification code (2) managed by Schneider Electric. The radio communication frequency is 2.4 GHz and automatic frequency hopping allows up to 50 systems to run at the same time in a 100 x 100 m/328 x 328 ft area.

eXLhoist configuration software

Free software with a graphic user interface can be downloaded by the customer to configure the remote control station. This software has a standard Windows® interface. The configuration file is password protected and can be used to configure the following parameters:

- b Base station pairing to the remote control device
- b Relay-pushbutton assignment and interlocking
- b Access and restart sequence
- b Standby time-out duration
- b Machine number assignment

Environment

Degree of protection:

- b IP 65 for the base station
- b IP 65 and NEMA 4 for the wireless control device

Product certification:

- b For the base station: UL/CSA, CE, EAC
- b For the wireless control device: UL/CSA, CE, EAC

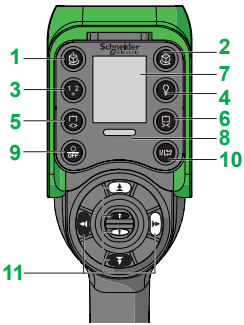
(1) MBC: Multi base control (tandem)

(2) Third-party devices cannot communicate with the remote control system.

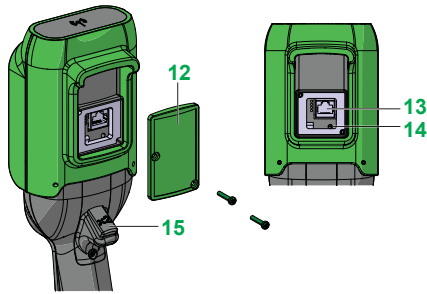
Operator control stations

Wireless remote control system

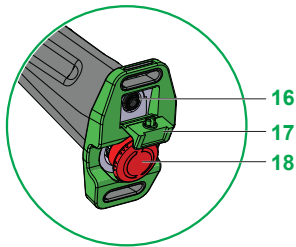
Harmony eXLhoist



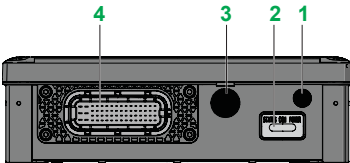
Front view of ZART12D remote device



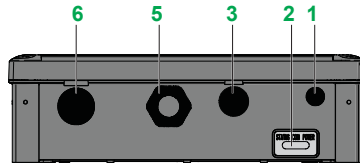
Rear view of remote device



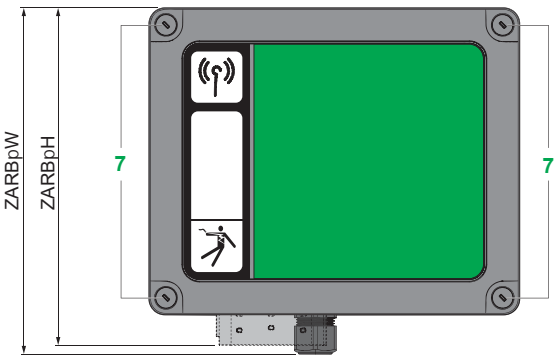
Underside view of remote device handle



Underside view of ZARBpH base station



Underside view of ZARBpW base station



Front view of base station with cover

Description

Remote control device

The remote control device has the following controls:

- 1-6 Auxiliary buttons (for **ZART8D** and **ZART8L** only buttons 5 and 6 are available)
- 7 Display (for **ZART8L** LED display only)
- 8 E-stop LED
- 9 OFF/Stop button
- 10 ON/Start/Horn button
- 11 Motion buttons
- 12 Cover
- 13 RJ45 connector
- 14 Reset button
- 15 Trigger button
- 16 Connector for charging remote device
- 17 Connector cover
- 18 E-stop button

Base station

The base station has the following controls:

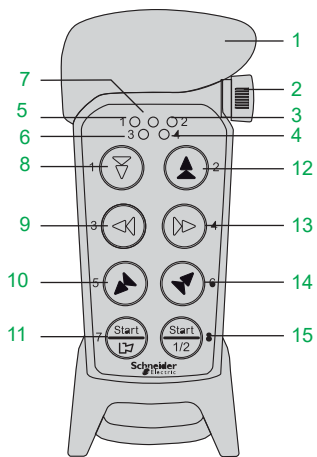
- 1 M12 for external antenna (1)
- 2 Status LEDs
- 3 M20 for the Safeguarding function input wires (1)
- 4 62-pin connector (1)
- 5 M25 for output wires (2)
- 6 M25 for detected application alarm input wires (1)
- 7 4 holes for standard mounting on support (1)

(1) Covered by an end cap
(2) Covered by a cable gland

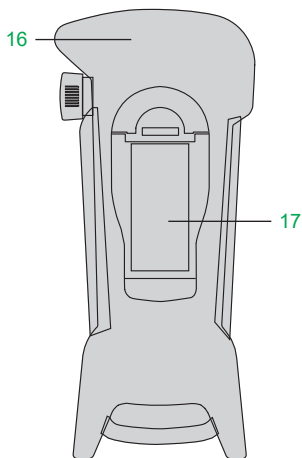
Operator control stations

Wireless remote control system

Harmony eXLhoist



Front view of ZART8LS remote device



Rear view of remote device

Description

Remote control device

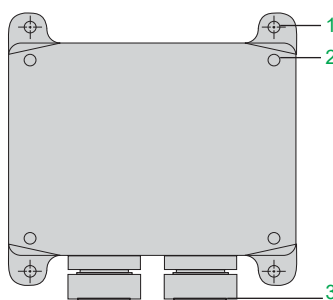
The remote control device has the following controls:

Front view

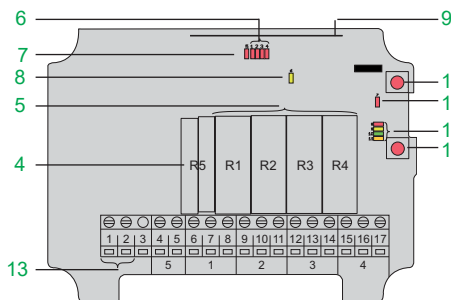
- 1 Rubber cover
- 2 Stop button
- 3 LED 2 (red)
- 4 LED 4 (red)
- 5 LED 1 (red)
- 6 LED 3 (red)
- 7 Top LED (red, green)
- 8 Button 1
- 9 Button 3
- 10 Button 5
- 11 Button 7 - left start button
- 12 Button 2
- 13 Button 4
- 14 Button 6
- 15 Button 8 - right start button

Rear view

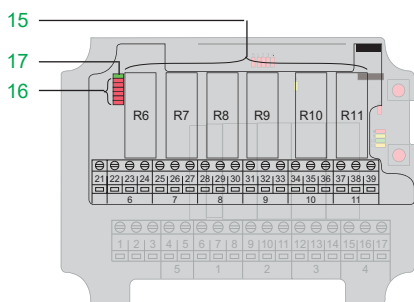
- 16 Rubber protection cover
- 17 Battery pack



Front view of base station



Internal board view of base station



Expansion board view of base station

Base station

The base station has the following controls:

Front view

- 1 4 x Ø5 mm/0.20 in. holes for standard mounting on a support
- 2 4 x screws to maintain the cover of the receiver
- 3 2 x cable glands for cables Ø 6...13 mm/0.25...0.50 in.

Internal board view

- 4 Stop relays
- 5 Relays R1 ...R4
- 6 Relay LEDs (red)
- 7 Stop relay LED (red)
- 8 Power LED (yellow)
- 9 Radio module
- 10 Function button (cancel)
- 11 Select button (OK)
- 12 Function LEDs
(8 = red, 9 = yellow, 10 = green, 11 = orange)
- 13 Terminal block for input power
- 14 PLd (Performance Level d) status LED

Expansion board view

- 15 Relays R6...R11
- 16 Relay LEDs (red)
- 17 Communication LED (green)

Operator control stations

Wireless remote control system

Harmony eXLhoist

Remote control device and base station



ZART8L



ZART8D



ZART8LS



ZARB12H



ZARB18W



ZARB10WS



XARS12D18H

Remote control device					
Description	Characteristics		Reference		Weight kg/lb
	Motion pushbuttons	Auxiliary pushbuttons	Standard	MBC (1)	
With LEDs	6	2	ZART8L	ZART8LM (slave)	0.650/1.433
With display	6	2	ZART8D	ZART8DM (master or slave)	0.650/1.433
With display	6	6	ZART12D	ZART12DM (master or slave)	0.650/1.433
With LEDs	6	1	ZART8LS	-	0.300/0.661

Base station						
Description	Characteristics			Reference		Weight kg/lb
	Outputs	Inputs	Power supply V	Standard	MBC (1)	
Wired connection cable gland	12 relays + 2 safety relays	-	24...240 z	ZARB12W	-	1.450/3.197
Industrial plug connection	12 relays + 2 safety relays	-	24...48 z	ZARB12H	-	1.450/3.197
Wired connection cable gland	18 relays + 2 safety relays	18 digital (12 limiters + 6 alarms)	24...240 z	ZARB18W	ZARB18WM	1.450/3.197
Industrial plug connection	18 relays + 2 safety relays	18 digital (12 limiters + 6 alarms)	24...48 z	ZARB18H	ZARB18HM	1.450/3.197
Wired connection cable gland	10 relays + 2 safety relays	-	48...240 a	ZARB10WS	-	0.430/0.947
Wired connection (pre-wired with 1.5 m/ 4.92 ft cable)	10 relays + 2 safety relays	-	48...240 a	ZARB10WSP	-	0.880/1.940

Wireless remote control				
Description	Characteristics		Reference	Weight kg/lb
	Special functions	Connection		
Complete unit (without charger device)	-	Wiring	XARS8L12W (ZART8L + ZARB12W)	2.100/4.640
	-	Industrial plug	XARS8L12H (ZART8L + ZARB12H)	2.100/4.640
Limiter protection Movement monitoring	-	Wiring	XARS8D18W (ZART8D + ZARB18W)	2.100/4.640
		Industrial plug	XARS8D18H (ZART8D + ZARB18H)	2.100/4.640
-	-	Wiring	XARS12D18W (ZART12D + ZARB18W)	2.100/4.640
		Industrial plug	XARS12D18H (ZART12D + ZARB18H)	2.100/4.640

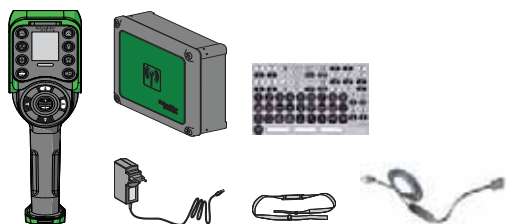
(1) MBC: Multi base control (tandem)

Operator control stations

Wireless remote control system

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Kits and accessories



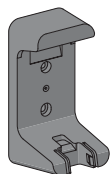
XARSK8L12W



ZARC01



ZARC02



ZARC04



ZARC07



TCSMCNAM3M002P

Kits			
Description	Characteristics	Reference	Weight
Components			kg/lb
Starting kit comprising remote control system + accessories + USB/RJ45 cable + configuration software	ZART8L + ZARB12W + ZARC01 + ZARC02 + TCSMCNAM3M002P	XARSK8L12W	2.800/6.173
	ZART8L + ZARB12H + ZARC01 + ZARC02 + TCSMCNAM3M002P	XARSK8L12H	2.800/6.173
	ZART8D + ZARB18W + ZARC01 + ZARC02 + TCSMCNAM3M002P	XARSK8D18W	2.800/6.173
	ZART8D + ZARB18H + ZARC01 + ZARC02 + TCSMCNAM3M002P	XARSK8D18H	2.800/6.173
	ZART12D + ZARB18W + ZARC01 + ZARC02 + TCSMCNAM3M002P	XARSK12D18W	2.800/6.173
	ZART12D + ZARB18H + ZARC01 + ZARC02 + TCSMCNAM3M002P	XARSK12D18H	2.800/6.173

Accessories			
Description	Characteristics	Reference	Weight
			kg/lb
Charger for remote device	100...240 V a power supply	ZARC01	0.350/0.772
Shoulder belt for remote device	2 m/6.56 ft long	ZARC02	0.100/0.220
External antenna for base station (1)	With 2 m/6.56 ft cable and bracket included	ZARC03	0.200/0.441
Holder for remote device	104 x 239 mm/ 4.09 x 9.41 in.	ZARC04	0.250/0.551
Female plug connector	With 1.5 m/ 4.92 ft cable	ZARC05	2.000/4.409
Cable gland kit with wire grommets	1 x M25 + 1 x M20	ZARC06	0.050/0.110
Adhesive label kit for remote device	Black and white	ZARC07	0.150/0.331
Adhesive label kit for remote device and crane equipment	Multicolored	ZARC08	0.250/0.551
	Silent block (anti-vibration) support	ZARC09	0.825/1.815
Installation kit	Magnet support	ZARC091	0.625/1.375
	Female plug connector	With 3 m/ 9.84 ft cable	ZARC12
Female plug connector	With 5 m/ 16.40 ft cable	ZARC18	7.000/15.432
Connector cable	USB to RJ45	TCSMCNAM3M002P	0.100/0.220

(1) This accessory can be used to increase the radio range in severe environment conditions.

Operator control stations

Wireless remote control system

Harmony eXLhoist

Accessories



ZARC701



ZARC702



ZARC703



ZARC705



ZARC706



ZARC707



ZARCFBA01



ZARCIOT01

Accessories (continued)

Description	Characteristics	Reference	Weight kg/lb
Multi-charger power supply 6W, 5 V C /1.2 A (for ZARC702 Li-Ion rechargeable battery only)	100...240V a power supply	ZARC701	0.100/0.220
Li-Ion rechargeable battery with battery table charger	83 x 46 mm/ 3.268 x 1.811 in.	ZARC702	0.050/0.110
Battery pack for 3 x AAA (batteries not included)	83 x 46 mm/ 3.268 x 1.811 in.	ZARC704	0.020/0.044
Battery table charger, (for ZARC702 Li-Ion rechargeable battery only)	5 V C power supply	ZARC703	0.120/0.265
Front label cover for ZART8LS pushbuttons	120 x 60 mm/ 4.724 x 2.362 in.	ZARC705	0.005/0.011
Rubber protection cover for ZART8LS	Rubber material, black	ZARC706	0.107/0.24
Shoulder belt to support ZART8LS	Nylon material, black	ZARC707	0.130/0.29
Added features card (1)	Analog input modbus serial line card (Field bus communication analog card)	ZARCFBA01	0.144/0.317
Network communication card (1)	Sigfox connectivity (Preventive maintenance data gateway)	ZARCIOT01	0.05/0.110

(1) Compatible only with XARS12D18W, XARSK8D18W, ZARB12W, ZARB18W, ZARB18WM, ZARB12WR, ZARB18WR, ZARB18WRM base stations are not compatible with ZART8L remote control device.



Harmony eXLhoist Wireless Remote Control System

Description	References	Unit MRP [₹]
Remote Control Device (6 motion Pushbutton+1 Aux, pushbutton)	ZART8LS	On Request
Receiver with 10 Relay +2 Safety relay : 48...240 V AC	ZARB10WS	On Request
Receiver with 10 Relay +2 Safety relay : 48...240 V AC (Prewired with 1.5 m cable)	ZARB10WSP	On Request



Harmony Pocket Remote Wireless Remote Control System

Transmitter

Description	References	Unit MRP [₹]
3 Single Step Push Buttons	ZART03	On Request
4 Single Step Push Buttons	ZART04	On Request
6 Single Step Push Buttons	ZART06	On Request
8 Single Step Push Buttons	ZART08	On Request
10 Single Step Push Buttons	ZART10	On Request

Receiver

Description	References	Unit MRP [₹]
5 relays small size receiver pre-wired with 1.5 m of cable	ZARB05WSP	On Request
11 relays small size receiver pre-wired with 1.5 m of cable	ZARB11WSP	On Request

Accessories

Description	References	Unit MRP [₹]
DIY adhesive label kit for remote transmitter, 66 x 114 mm/2.60 x 4.49 in. for use with ZART03	ZARC603	On Request
DIY adhesive label kit for remote transmitter, 66 x 114 mm/2.60 x 4.49 in. for use with ZART04	ZARC604	On Request
DIY adhesive label kit for remote transmitter, 66 x 114 mm/2.60 x 4.49 in. for use with ZART06	ZARC606	On Request
DIY adhesive label kit for remote transmitter, 66 x 114 mm/2.60 x 4.49 in. for use with ZART08	ZARC608	On Request
DIY adhesive label kit for remote transmitter, 66 x 114 mm/2.60 x 4.49 in. for use with ZART10	ZARC610	On Request
DIY adhesive label kit for remote transmitter, 66 x 114 mm/2.60 x 4.49 in. for use with ZART03, ZART04, ZART06, ZART08, ZART10	ZARC620	On Request

Please contact Customer Care Center for Stockable and Non stockable status of references.

NORMAL STOCK ITEMS

W.E.F. January 17th, 2024