DANGER WARNING
HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH
- Disconnect all power from all equipment including connected devices, prior to removing any covers or doors, or installing or removing any accessories, hardware, cables, or wires except under the specific conditions specified in the appropriate hardware guide for this equipment.
- Always use a properly rated voltage sensing device to confirm the power is off where and when indicated.
- Replace and secure all covers, accessories, hardware, cables, and wires and confirm that a proper ground connection exists before applying power to the unit.
- Use only the specified voltage when operating this equipment and any associated products. Failure to follow these instructions will result in death or serious injury.
- Disconnect all power from all equipment including connected devices, prior to removing any covers or doors, or installing or removing any accessories, hardware, cables, or wires except under the specific conditions specified in the appropriate hardware guide for this equipment.
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- Replace and secure all covers, accessories, hardware, cables, and wires and confirm that a proper ground connection exists before applying power to the unit.
- Use only the specified voltage when operating this equipment and any associated products. Failure to follow these instructions will result in death or serious injury.

WARNING
UNINTENDED EQUIPMENT OPERATION
- Use appropriate safety interlocks where personnel and/or equipment hazards exist.
- Install and operate this equipment in an enclosure appropriately rated for its intended environment.
- Do not disassemble, repair, or modify this equipment.
- Do not connect any wiring to unused connections, or to connections designated as Not Connected (N.C.). Failure to follow these instructions can result in death, serious injury, or equipment damage.

WARNING
UNINTENDED EQUIPMENT OPERATION
- Power line must be wired and protected with fuse or thermal magnetic switch (ex: Schneider-Electric GV2) in compliance with local and national regulatory requirements for the rated current and voltage of the particular equipment.
- Failure to follow these instructions can result in death, serious injury, or equipment damage.

WARNING
UNINTENDED EQUIPMENT OPERATION
- Put the remote into STOP mode when not operating the unit to avoid accidental operations of motions push buttons. Failure to follow these instructions can result in death, serious injury, or equipment damage.

Note: You can decrease the “stand-by time out” value using the configuration software tool to reduce the time the remote is in run mode.

It is recommended to charge the battery once a week, for a duration of at least 4 hours.

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material. You can download our technical user guide file as well as the eXLhoist configuration software from our website at www.schneider-electric.com.
Main characteristics

WARNING

UNINTENDED EQUIPMENT OPERATION

Install and operate this equipment according to the environmental conditions described in the operating limits. Failure to follow these instructions can result in death, serious injury, or equipment damage.

Base station ZARB

- Specifications
  - Operating voltage: AC/DC power supply Min…max: 24...48 V AC/DC ± 20%
  - Current consumption: For 24V DC: 328 mA, For 24V AC: 535 mA, For 48V DC: 155 mA, For 48V AC: 312 mA
  - Operating temperature: For 24V AC: -25...70°C (-13...158°F), For 48V AC: -25...70°C (-13...158°F), For 48V DC: -25...50°C (-13...122°F)
  - Degree of protection: IP65 / NEMA 4

Remote control ZART

- Specifications
  - Operating radio range: Free field > 300 m
  - Operating temperature: -20...60°C (-4...140°F)
  - Operating temperature to charge battery: Office environment 10...40°C (50...104°F)
  - Degree of protection: IP65 / NEMA 4

Charger for remote device

- Specifications
  - Operating voltage: 110 / 240 VAC
  - Operating temperature: Office environment 0...40°C (32...104°F)
  - Degree of protection: IP20

Specifications | Details | Values
--- | --- | ---
Operating voltage | ZARB12H | 24...48 V AC/DC ± 20%
Current consumption | ZARB12W | 24...240 V AC/DC ± 20%
| ZARB18H | 24...48 V AC/DC ± 20%
| ZARB18W | 24...240 V AC/DC ± 20%
Operating temperature | ZARB12H | -25...70°C (-13...158°F)
| ZARB12W | -25...70°C (-13...158°F)
| ZARB18H | -25...70°C (-13...158°F)
| ZARB18W | -25...70°C (-13...158°F)
Degree of protection | ZARB12H | IP65 / NEMA 4
| ZARB12W | IP65 / NEMA 4
| ZARB18H | IP65 / NEMA 4
| ZARB18W | IP65 / NEMA 4

Specifications | Details | Values
--- | --- | ---
Operating radio range | ZART8L | Free field > 300 m
Operating temperature | ZART8D | -20...60°C (-4...140°F)
Degree of protection | ZART12D | Office environment 10...40°C (50...104°F)
|  | IP65 / NEMA 4

Specifications | Details | Values
--- | --- | ---
Operating voltage |  | 110 / 240 VAC
Operating temperature |  | 0...40°C (32...104°F)
Degree of protection |  | IP20

Specifications
- Output Plug: Ø 5.5 x Ø 2.5 x 11.0 mm Inner Positive
**WARNING**

**UNINTENDED EQUIPMENT OPERATION**

- Use shielded cables wherever specified for inputs and outputs connections.
- Properly ground the cable shields as indicated in the related documentation.
- Route I/O cables separately from power cables.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

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**UNINTENDED EQUIPMENT OPERATION**

Connect the Base Station protective earth ground connection to the machine ground.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

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**Base station terminal wiring**

**Base station ZARB18H - Connector pin out**

**A : Pin number**

**B : ZARB18H description**

**C : ZARB12H description**

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**Cable length maximum 50 m (164 ft)**

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**FIRE HAZARD**

Use only the recommended wire sizes for I/O channels and power supplies.

Failure to follow these instructions will result in death or serious injury.

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**NOTICE**

**INOPERABLE EQUIPMENT**

Do not tighten screw terminals beyond the specified maximum torque (Nm / lb-in.).

Failure to follow these instructions can result in equipment damage.

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**Diagram and Table**

- Various pin numbers and connections are shown, including CT_1, CT_2, CT_3, CT_4, CC_1, CC_2, CC_3, IN0, IN1, etc.
- Cable lengths and wire diameter specifications are provided in the table.
### Electrical Diagram

#### Base station ZARB - Inputs / Outputs

<table>
<thead>
<tr>
<th>Input / Output</th>
<th>Possible Uses (depending of the configuration)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN0</td>
<td>Feedback loop input</td>
</tr>
<tr>
<td>IN1...IN6</td>
<td>Applicative Alarm (only for ZARB18p)</td>
</tr>
<tr>
<td>IN7...IN18</td>
<td>Limit Switches (only for ZARB18p)</td>
</tr>
<tr>
<td>Q0A (13/14)</td>
<td>Safety relays</td>
</tr>
<tr>
<td>Q0B (23/24)</td>
<td></td>
</tr>
<tr>
<td>Q1...Q9</td>
<td>Motion relays</td>
</tr>
<tr>
<td>Q10...Q16</td>
<td>Auxiliary relays (Q13 to Q18 only for ZARB18p)</td>
</tr>
<tr>
<td>Q17, Q18</td>
<td>Specific relays (only for ZARB18p)</td>
</tr>
</tbody>
</table>

#### Base station ZARB18p - Applicative alarms

<table>
<thead>
<tr>
<th>Input</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN1</td>
<td>Overload pre-alarm</td>
</tr>
<tr>
<td>IN2</td>
<td>Overload alarm</td>
</tr>
<tr>
<td>IN3</td>
<td>Over wind pre-alarm</td>
</tr>
<tr>
<td>IN4</td>
<td>Over wind alarm</td>
</tr>
<tr>
<td>IN5</td>
<td>Over speed alarm</td>
</tr>
<tr>
<td>IN6</td>
<td>Generic alarm</td>
</tr>
</tbody>
</table>

The ZARB18p base station implements 6 inputs: IN1...IN6. Different sensors can be connected to these inputs. These inputs are dedicated for applicative alarms.

For E-Stop SIL3, PLe, category 4 refer to the user manual. For the other cases, connect IN0 to S2_S3 signals.

#### Example of wiring for E-Stop and Stop SIL2, PLd, category 3

- E-Stop function: category 3
- STOP function: category 3

#### Example of wiring for E-Stop and Stop SIL2, PLd, category 3, mix drives and contactors
Mechanical installation

ZARC09 : Fixation kit with silent block

ZARC091 : Fixation kit with magnet supports

Ø 4 maxi
Ø 0.16 maxi

210.8
8.6
268.6
10.57

EAV90167

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Pairing with discovering (only for ZARTppD)

Base station ID: 00-80-80-11-AE
Label: 283

1. 1 s

2. 1 s

3. 1 s

4. 1 s

5. 1 s

6. 1 s

7. 1 s

8. 1 s

9. 1 s

Stop

283

ON < 5 min
Pairing with configuration software

Base station ID: 00-80-F4-00-11-AE
Label: 283

Diagnostics
Base station ZARB*** - Diagnostic LEDs

<table>
<thead>
<tr>
<th>LED</th>
<th>Color</th>
<th>State</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status</td>
<td>Green</td>
<td>ON</td>
<td>The remote control system is working properly</td>
</tr>
<tr>
<td>OFF</td>
<td>Base station power OFF or internal fault detected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM</td>
<td>Yellow</td>
<td>OFF</td>
<td>No communication between the base station and the remote control device</td>
</tr>
<tr>
<td>Blinking</td>
<td>The communication is established between the base station and the remote control device</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>White</td>
<td>OFF</td>
<td>Base station powered OFF</td>
</tr>
<tr>
<td>ON</td>
<td>Base station powered ON</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remote device ZART***D - Diagnostic Display

NOTICE
INOPERABLE EQUIPMENT
- Always connect the communication cable to the PC before connecting it to the device.
- Only use the Schneider Electric cable TCSMCNAM3M002P. Failure to follow these instructions can result in equipment damage.

Download eXLhoist configuration software

www.schneider-electric.com
Accessories

ZARC01 : Charger for remote device

ZARC02 : Shoulder belt for remote device

ZARC03 : External antenna for base station

ZARC04 : Holder for remote device

ZARC05 / ZARC12 / ZARC18 : Connector plug female

ZARC01 : Charger for remote device

ZARC02 : Shoulder belt for remote device

ZARC03 : External antenna for base station

ZARC04 : Holder for remote device

ZARC05 : 1.5 m / 4.92 ft
ZARC12 : 3 m / 9.84 ft
ZARC18 : 5 m / 16.40 ft

ZARC06 : Bellows

ZARC20 : Bellows

ZARC21 : Protections

ZARC20 : Bellows

ZARC21 : Protections