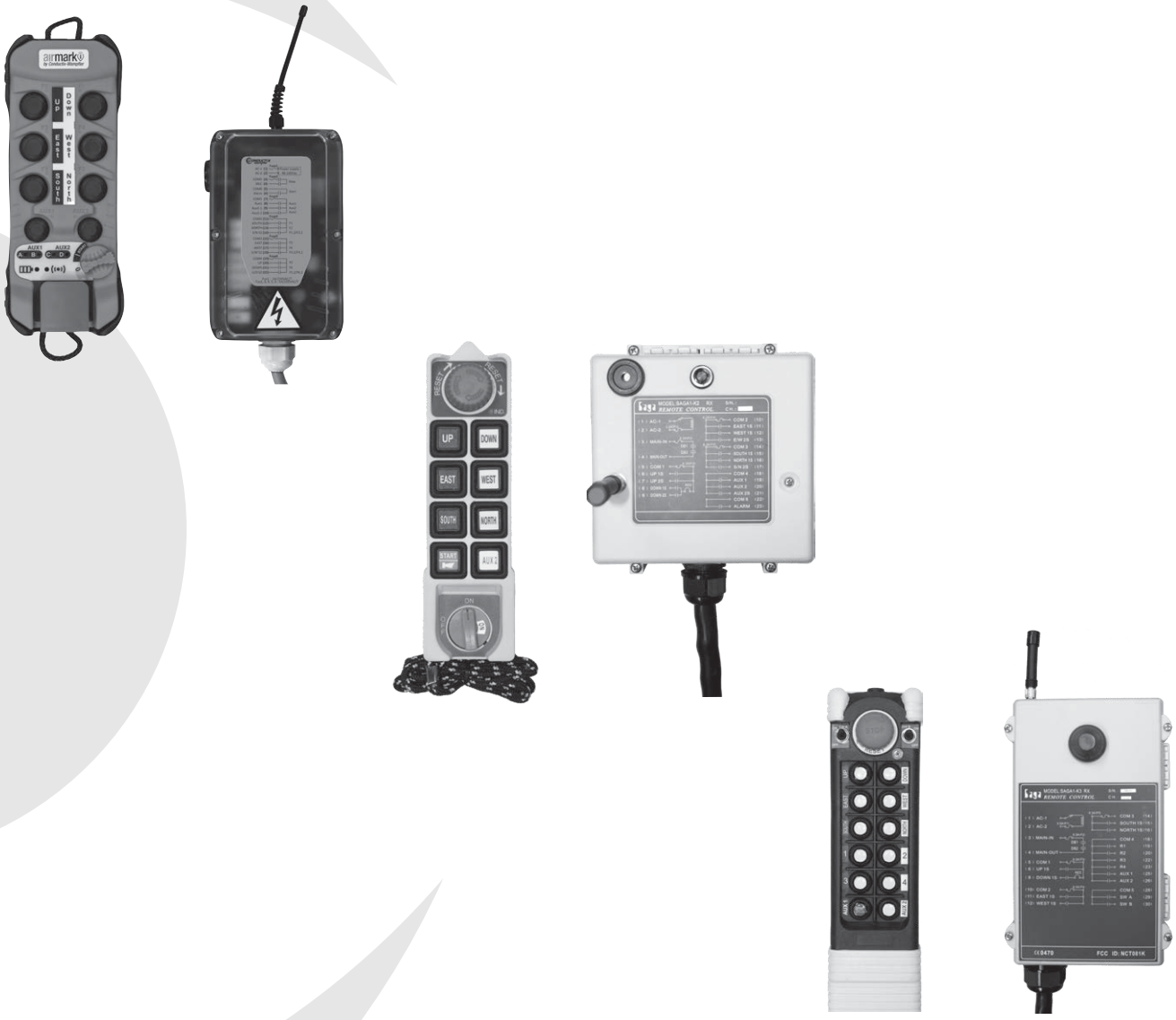
QuickBridge

Wiring Diagram Installation Manual



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SECTION 1 - SAFETY

1.0 Safety Information Responsibility

1.0.1 All owner, operator, and maintenance personnel must read and understand all manuals associated with this product before installation, operation, or maintenance.

1.0.2 The manual provides information on the recommended installation, operation, and maintenance of this product. Failure to read and follow the information provided could cause harm to yourself or others and/or cause product damage. No one should install, operate, or attempt maintenance of this product prior to familiarizing themselves with the information in this manual.

1.1 Safety Messages

The following safety messages are used in this manual to alert you to specific and important safety related information.

CAUTION

CAUTION indicates unsafe actions or situations that have the potential to cause injury, and/or minor equipment or property damage.

DANGER

DANGER indicates hazards that have the potential to cause severe personal injury or death.

WARNING

WARNING indicates unsafe actions or situations that have the potential to cause severe injury, death, and/or major equipment or property damage.

NOTE

NOTE is used to alert you to installation, operation, programming, or maintenance information that is important, but not hazard related.

1.2 Limitation of Liability

1.2.1 All data and information in this mounting instructions have been compiled in compliance with the applicable standards and regulations, best practice and our many years of experience and knowledge.

1.2.2 The manufacturer accepts no liability for damages resulting from:

- Failure to comply with this document
- Improper use
- Use by untrained personnel
- Unauthorized modifications
- Technical changes
- Use of unauthorized replacement parts and accessories
- The actual scope of delivery may differ from the explanations and descriptions provided here if the model in question is a special one, if additional equipped has been ordered or due to recent technical changes.

1.2.3 The obligations agreed upon in the delivery agreement and our General Terms and Conditions of business apply, as do the delivery conditions of the manufacturer and the legal regulations applicable at the time the contract was concluded.

1.2.4 All products are subject to technical modifications in the context of improvement of function and further development.

1.3. Personnel Requirements-Qualifications

WARNING

- **Inadequately trained persons are at risk of injury!**
  Improper use can result in serious personal injury or material damage. All activities must only be performed by qualified personnel.

1.3.1 Only persons who can be expected to perform their work reliably are acceptable personnel. People whose reactions are impaired by drugs, alcohol or medications, for example, are not authorized.

1.3.2 When selecting personnel, follow all age- and occupation-specific guidelines applicable at the location of use.

1.3.3 The following qualifications are specified in the operating instructions for certain fields of activity.

1.3.4 Trained personnel and operators

- Will have participated in a training session, given by the owner, on the tasks assigned to them and the potential hazards in case of improper conduct.
- The owner of the machine or system must document that the appropriate training has taken place.

1.3.5 Specialist personnel

- Will consist of persons capable of performing assigned tasks and independently identifying and avoiding potential hazards based on their specialist training, knowledge and experience as well as their knowledge of the applicable regulations. Persons are deemed to be technically qualified if they have successfully completed training as a master electrician, apprentice electrician, electrical engineer or electrical technician. Persons are also considered technically qualified if they have been employed in an appropriate capacity for several years, receiving theoretical and practical training in that line, and their knowledge and skills have been tested by a specialist in the appropriate field of training.
- The machine or system owner must document that the appropriate certificates or other proofs of qualification have been or are being provided.

1.4 Personnel Requirements-Unauthorized Personnel

WARNING

- **Danger due to unauthorized personnel!**
  Unauthorized persons who do not meet the requirements described here are not acquainted with the dangers in the working area. Keep unauthorized personnel away from the working area. In case of doubt, address the person and direct them away from the working area. Stop working, as long as unauthorized persons are in the working area.

1.5 Personnel Requirements-Training

1.5.1 Before commissioning the equipment, personnel must be trained by the owner. Log the implementation of training for better traceability.

Example of a training log:

Date	Name	Training Type	Training Instructor	Signature
11/5/2019	John Doe	First safety training for personnel	Dave Miller	

1.6 Personal Protective Equipment

1.6.1 For every task, always use:

Safety helmet: For protection against falling or flying parts and materials.

Protective gloves: For the protection of hands against friction, scrapes, puncture or deeper wounds, as well as against contact with hot surfaces.

Protective work clothing: Primarily for protection against entrapment by moving machine parts. Work clothing must be close fitting with a low resistance to tearing; it must have close-fitting sleeves and no protruding parts.

Protective footwear: For protection against heavy falling parts and slipping on slippery floors.
For special tasks, specific protective equipment is required when executing particular tasks:

Safety eye wear: For eye protection against harmful influences such as strong light, chemicals, dust, splinters or weather effects.

Hearing protection: For protection against loud noises and to prevent acoustic trauma.

Breathing mask (FFP-3 - according to country-specific requirements): For protection against materials, particles, and organisms. In this case, for protection against the dust produced by the abrasion of carbon brushes and the PVC insulation of the conductor rail.

SECTION 2 - PRODUCT DISPOSAL

2.0 Product Disposal and Recycling

2.0.1 Once the product has reached it's end of life it must be disassembled and disposed of in accordance with local and regional environmental requirements.

2.0.2 In the absence of a return and disposal agreement, disassembled components must be recycled as follows:

- All metallic parts must be sorted and recycled by material type
- All plastic components must be sorted and recycled by material type
- All other components are to be disposed of in accordance with their material composition. Take care with items identified as Substances of Concern.

2.0.3 Local authorities or special disposal companies can provide information about environmentally appropriate disposal.

SECTION 3 - OVERVIEW

3.0 QuickBridge is a modern concept in bridge electrification to give your overhead cranes a clean, contemporary look. QuickBridge eliminates traditional cable festoon and provides a lower profile than cable chain systems. QuickBridge features conductor bar for bridge power and wireless radio remote controls for hoist control. This combination supplies crane bridge electrification that is efficient, safe, rugged and reliable. The QuickBridge design increases available bridge travel, maximizes below-the-hook working space, and reduces downtime to ensure peak equipment availability.

3.1 Please follow either the Safe-Lec 2 or 842 conductor bar installation manual for conductor bar installation procedure and reference the radio installation guide for mounting and installation.

3.2 The QuickBridge system has a modified wiring diagram which is listed in this installation manual. Please use the wiring diagram that matches the ordered radio system for your configuration.

SECTION 4 - WIRING DIAGRAMS

4.0 QB3 Bridge Receiver Wiring

(1) AC-1 (OR DC +)	110VAC (or 12-24VDC+)
(2) AC-2 (OR DC -)	AC Neutral (or 12-24VDC-)
(3) MAIN-IN	110VAC (or voltage needed for Mainline contactor on MAIN-OUT)
(4) MAIN-OUT	Output of MAIN-IN input voltage (if not needed, cap off)
(5) COM 1	Not used
(6) UP 1S	Not used
(8) DOWN 1S	Not used
(10) COM 2	Not used
(11) EAST 1S	Not used
(12) WEST 1S	Not used
(14) COM 3	Signal input needed to run function
(15) SOUTH 1S	Output to South bridge 1-speed function
(16) NORTH 1S	Output to North bridge 1-speed function
(18) COM 4	Not used
(19) R1	Not used
(20) R2	Not used
(22) R3	Not used
(23) R4	Not used
(25) AUX 1	Not used
(26) AUX 2	Not used
(28) COM 5	Not used
(29) SW A	Not used
(30) SW B	Not used

SECTION 4 - WIRING DIAGRAMS

4.1 QB3 Hoist “A” Receiver Wiring

(1) AC-1 (OR DC +)	110VAC (or 12-24VDC+)
(2) AC-2 (OR DC -)	AC Neutral (or 12-24VDC-)
(3) MAIN-IN	110VAC (or voltage needed for Mainline contactor on MAIN-OUT)
(4) MAIN-OUT	Output of MAIN-IN input voltage (if not needed, cap off)
(5) COM 1	Input from SW A
(6) UP 1S	Output to Up 1-speed function
(8) DOWN 1S	Output to Down 1-speed function
(10) COM 2	Input from SW A (if trolley present on hoist)
(11) EAST 1S	Output to East 1-speed function
(12) WEST 1S	Output to West 1- speed function
(14) COM 3	Not used
(15) SOUTH 1S	Not used
(16) NORTH 1S	Not used
(18) COM 4	Input from SW A (if functions needed)
(19) R1	Output to function
(20) R2	Output to function
(22) R3	Output to function
(23) R4	Output to function
(25) AUX 1	Not used
(26) AUX 2	Not used
(28) COM 5	Signal input needed to run function
(29) SW A	Output to Com 1 (and Com 2 if trolley present on hoist)
(30) SW B	Not used

SECTION 4 - WIRING DIAGRAMS

4.2 QB3 Hoist “B” Receiver Wiring

(1) AC-1 (OR DC +)	110VAC (or 12-24VDC+)
(2) AC-2 (OR DC -)	AC Neutral (or 12-24VDC-)
(3) MAIN-IN	110VAC (or voltage needed for Mainline contactor on MAIN-OUT)
(4) MAIN-OUT	Output of MAIN-IN input voltage (if not needed, cap off)
(5) COM 1	Input from SW B
(6) UP 1S	Output to UP 1-speed function
(8) DOWN 1S	Output to DOWN 1-speed function
(10) COM 2	Input from SW B (if trolley present on hoist)
(11) EAST 1S	Output to East 1-speed function
(12) WEST 1S	Output to West 1-speed function
(14) COM 3	Not used
(15) SOUTH 1S	Not used
(16) NORTH 1S	Not used
(18) COM 4	Input from SW B (if functions needed)
(19) R1	Output to function
(20) R2	Output to function
(22) R3	Output to function
(23) R4	Output to function
(25) AUX 1	Not used
(26) AUX 2	Not used
(28) COM 5	Signal input needed to run function
(29) SW A	Not used
(30) SW B	Output to Com 1 (and Com2 if trolley present on hoist)

SECTION 4 - WIRING DIAGRAMS

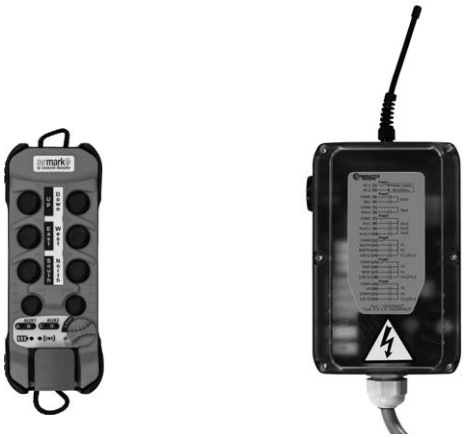
4.3 QB4 Bridge Receiver Wiring

(1) AC-1 (OR DC +)	—○—	48-230VAC
(2) AC-2 (OR DC -)	—○—	AC Neutral
(3) MAIN-IN	—○—	48-230VAC (voltage needed for Mainline contactor on MAIN-OUT)
(4) MAIN-OUT	—○—	Output of MAIN-IN input voltage (if not needed, cap off)
(5) COM 5	—○—	Horn/Alarm input
(6) ALARM	—○—	Ouput from alarm
(7) COM 1	—○—	Not used
(8) AUX 1	—○—	Not used
(9) AUX 2-1	—○—	Not used
(10) AUX 2-2	—○—	Not used
(11) COM 2	—○—	Voltage input needed to run functions
(12) SOUTH 1S	—○—	Output to South bridge 1-speed function
(13) NORTH 1S	—○—	Output to North bridge 1-speed function
(14) S/N 2S	—○—	Output to North & South bridge 2-speed functions
(15) COM 3	—○—	Not used
(16) EAST 1S	—○—	Not used
(17) WEST 1S	—○—	Not used
(18) E/W 2S	—○—	Not used
(19) COM 4	—○—	Not used
(20) UP 1S	—○—	Not used
(21) DOWN 1S	—○—	Not used
(22) U/D 2S	—○—	Not used

SECTION 4 - WIRING DIAGRAMS

4.4 QB4 Hoist Receiver Wiring

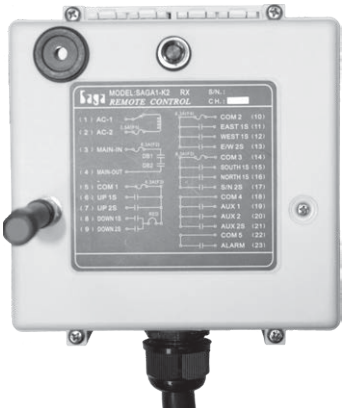
(1) AC-1 (OR DC +)	—o—	48-230VAC
(2) AC-2 (OR DC -)	—o—	AC Neutral
(3) MAIN-IN	—o—	48-230VAC (voltage needed for Mainline contactor on MAIN-OUT)
(4) MAIN-OUT	—o—	Output of MAIN-IN input voltage (if not needed, cap off)
(5) COM 5	—o—	Horn/Alarm input
(6) ALARM	—o—	Ouput from alarm
(7) COM 1	—o—	Not used
(8) AUX 1	—o—	Not used
(9) AUX 2-1	—o—	Not used
(10) AUX 2-2	—o—	Not used
(11) COM 2	—o—	Not used
(12) SOUTH 1S	—o—	Not used
(13) NORTH 1S	—o—	Not used
(14) S/N 2S	—o—	Not used
(15) COM 3	—o—	Voltage input needed to run functions (if trolley present on hoist)
(16) EAST 1S	—o—	Output to Trolley East 1-speed function
(17) WEST 1S	—o—	Output to Trolley West 1-speed function
(18) E/W 2S	—o—	Output to Trolley East & West 2-speed function
(19) COM 4	—o—	Voltage input needed to run functions
(20) UP 1S	—o—	Output to Up 1-speed function
(21) DOWN 1S	—o—	Output to Down 1-speed function
(22) U/D 2S	—o—	Output to Hoist Up & Down 2-speed functions



SECTION 4 - WIRING DIAGRAMS

4.5 QB5 Bridge Receiver Wiring

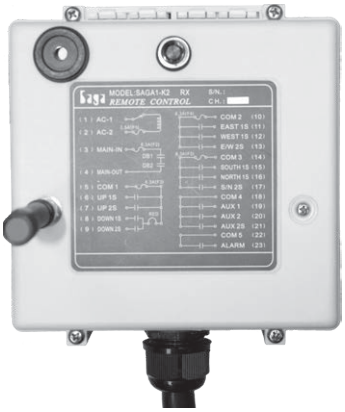
(1) AC-1 (OR DC +)	110VAC (or 12-24VDC+)
(2) AC-2 (OR DC -)	AC Neutral (or 12-24VDC-)
(3) MAIN-IN	110VAC (or voltage needed for Mainline contactor on MAIN-OUT)
(4) MAIN-OUT	Output of MAIN-IN input voltage (if not needed, cap off)
(5) COM 1	Not used
(6) UP 1S	Not used
(7) UP 2S	Not used
(8) DOWN 1S	Not used
(9) DOWN 2S	Not used
(10) COM 2	Not used
(11) EAST 1S	Not used
(12) WEST 1S	Not used
(13) E/W 2S	Not used
(14) COM 3	Signal input needed to run function
(15) SOUTH 1S	Output to South bridge 1-speed function
(16) NORTH 1S	Output to North bridge 1-speed function
(17) S/N 2S	Output to North & South bridge 2-speed functions
(18) COM 4	Not used
(19) AUX 1	Not used
(20) AUX 2	Not used
(21) AUX 2S	Not used



SECTION 4 - WIRING DIAGRAMS

4.6 QB5 Hoist "A" Receiver Wiring

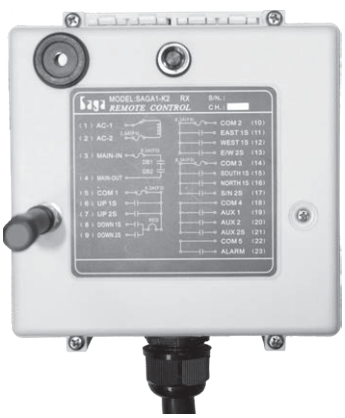
(1) AC-1 (OR DC +)	110VAC (or 12-24VDC+)
(2) AC-2 (OR DC -)	AC Neutral (or 12-24VDC-)
(3) MAIN-IN	110VAC (or voltage needed for Mainline contactor on MAIN-OUT)
(4) MAIN-OUT	Output of MAIN-IN input voltage (if not needed, cap off)
(5) COM 1	Input from Aux 1
(6) UP 1S	Output to Up 1-speed function
(7) UP 2S	Output to Up 2-speed function
(8) DOWN 1S	Output to Down 1-speed function
(9) DOWN 2S	Output to Down 2-speed function
(10) COM 2	Input from Aux 1 (if trolley present on hoist)
(11) EAST 1S	Output to Trolley East 1-speed function
(12) WEST 1S	Output to Trolley West 1-speed function
(13) E/W 2S	Output to Trolley East & West 2-speed function
(14) COM 3	Not used
(15) SOUTH 1S	Not used
(16) NORTH 1S	Not used
(17) S/N 2S	Not used
(18) COM 4	Signal input needed to run function
(19) AUX 1	Output to Com 1 (and Com 2 if trolley present on hoist)
(20) AUX 2	Not used
(21) AUX 2S	Not used



SECTION 4 - WIRING DIAGRAMS

4.7 QB5 Hoist “B” Receiver Wiring

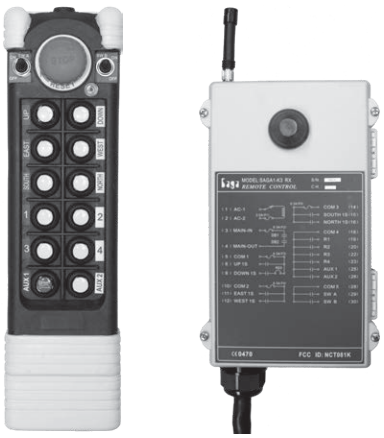
(1) AC-1 (OR DC +)	110VAC (or 12-24VDC+)
(2) AC-2 (OR DC -)	AC Neutral (or 12-24VDC-)
(3) MAIN-IN	110VAC (or voltage needed for Mainline contactor on MAIN-OUT)
(4) MAIN-OUT	Output of MAIN-IN input voltage (if not needed, cap off)
(5) COM 1	Input from Aux 1
(6) UP 1S	Output to Up 1-speed function
(7) UP 2S	Output to Up 2-speed function
(8) DOWN 1S	Output to Down 1-speed function
(9) DOWN 2S	Output to Down 2-speed function
(10) COM 2	Input from Aux 1 (if trolley present on hoist)
(11) EAST 1S	Output to Trolley East 1-speed function
(12) WEST 1S	Output to Trolley West 1-speed function
(13) E/W 2S	Output to Trolley East & West 2-speed function
(14) COM 3	Not used
(15) SOUTH 1S	Not used
(16) NORTH 1S	Not used
(17) S/N 2S	Not used
(18) COM 4	Signal input needed to run function
(19) AUX 1	Not used
(20) AUX 2	Not used
(21) AUX 2S	Output to Com 1 (and Com 2 if trolley present on hoist)



SECTION 4 - WIRING DIAGRAMS

4.8 QB6 Bridge Receiver Wiring

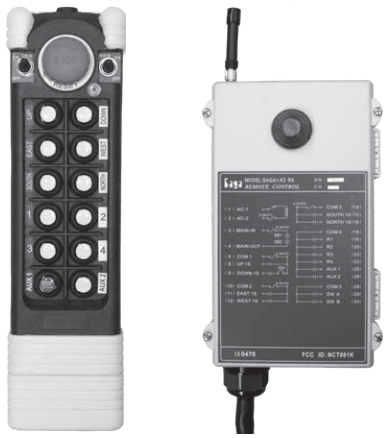
(1) AC-1 (OR DC +) —o— 110VAC (or 12-24VDC+)
(2) AC-2 (OR DC -) —o— AC Neutral (or 12-24VDC-)
(3) MAIN-IN —o— 110VAC (or voltage needed for Mainline contactor on MAIN-OUT)
(4) MAIN-OUT —o— Output of MAIN-IN input voltage (if not needed, cap off)
(5) COM 1 —o— Not used
(6) UP 1S —o— Not used
(7) UP 2S —o— Not used
(8) DOWN 1S —o— Not used
(9) DOWN 2S —o— Not used
(10) COM 2 —o— Not used
(11) EAST 1S —o— Not used
(12) WEST 1S —o— Not uesd
(13) E/W 2S —o— Not used
(14) COM 3 —o— Signal Input needed to run function
(15) SOUTH 1S —o— Output to South bridge 1- speed function
(16) NORTH 1S —o— Output to North bridge 1- speed function
(17) S/N 2S —o— Output to North & South bridge 2-speed functions
(18) COM 4 —o— Not used
(19) R1 —o— Not used
(20) R2 —o— Not used
(21) R1/R2 2S —o— Not used
(22) R3 —o— Not used
(23) R4 —o— Not used
(24) R3/R4 2S —o— Not used
(25) AUX 1 —o— Not used
(26) AUX 2 —o— Not used
(27) AUX 2S —o— Not used
(28) COM 5 —o— Not used
(29) SW A —o— Not used
(30) SW B —o— Not used



SECTION 4 - WIRING DIAGRAMS

4.9 QB6 Hoist “A” Receiver Wiring

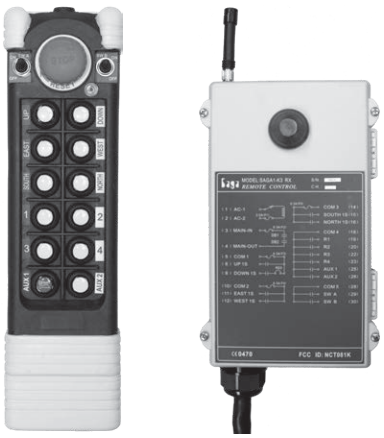
(1) AC-1 (OR DC +) —o— 110VAC (or 12-24VDC+)
(2) AC-2 (OR DC -) —o— AC Neutral (or 12-24VDC-)
(3) MAIN-IN —o— 110VAC (or voltage needed for Mainline contactor on MAIN-OUT)
(4) MAIN-OUT —o— Output of MAIN-IN input voltage (if not needed, cap off)
(5) COM 1 —o— Input from SW A
(6) UP 1S —o— Output to UP 1-speed function
(7) UP 2S —o— Output to UP 2-speed function
(8) DOWN 1S —o— Output to Down 1-speed function
(9) DOWN 2S —o— Output to Down 2-speed function
(10) COM 2 —o— Input from SW A (if trolley present on hoist)
(11) EAST 1S —o— Output to East 1-speed function
(12) WEST 1S —o— Output to West 1-speed function
(13) E/W 2S —o— Output to East & West 2-speed functions
(14) COM 3 —o— Not used
(15) SOUTH 1S —o— Not used
(16) NORTH 1S —o— Not used
(17) S/N 2S —o— Not used
(18) COM 4 —o— Input from SW A (if functions needed)
(19) R1 —o— Output to function
(20) R2 —o— Output to function
(21) R1/R2 2S —o— Output to function
(22) R3 —o— Output to function
(23) R4 —o— Output to function
(24) R3/R4 2S —o— Output to function
(25) AUX 1 —o— Not used
(26) AUX 2 —o— Not used
(27) AUX 2S —o— Not used
(28) COM 5 —o— Signal input needed to run function
(29) SW A —o— Output to Com 1 (and Com 2 if trolley present on hoist)
(30) SW B —o— Not used



SECTION 4 - WIRING DIAGRAMS

4.10 QB6 Hoist "B" Receiver Wiring

(1) AC-1 (OR DC +)	110VAC (or 12-24VDC+)
(2) AC-2 (OR DC -)	AC Neutral (or 12-24VDC-)
(3) MAIN-IN	110VAC (or voltage needed for Mainline contactor on MAIN-OUT)
(4) MAIN-OUT	Output of MAIN-IN input voltage (if not needed, cap off)
(5) COM 1	Input from SW B
(6) UP 1S	Output to UP 1-speed function
(7) UP 2S	Output to UP 2-speed function
(8) DOWN 1S	Output to Down 1-speed function
(9) DOWN 2S	Output to Down 2-speed function
(10) COM 2	Input from SW B (if trolley present on hoist)
(11) EAST 1S	Output to East 1-speed function
(12) WEST 1S	Output to West 1-speed function
(13) E/W 2S	Output to East & West 2-speed functions
(14) COM 3	Not used
(15) SOUTH 1S	Not used
(16) NORTH 1S	Not used
(17) S/N 2S	Not used
(18) COM 4	Input from SW A (if functions needed)
(19) R1	Output to function
(20) R2	Output to function
(21) R1/R2 2S	Output to function
(22) R3	Output to function
(23) R4	Output to function
(24) R3/R4 2S	Output to function
(25) AUX 1	Not used
(26) AUX 2	Not used
(27) AUX 2S	Not used
(28) COM 5	Signal input needed to run function
(29) SW A	Not used
(30) SW B	Output to Com 1 (and Com 2 if trolley present on hoist)



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