

# Door Operator Accessories



For additional information, availability or additional accessories not listed, please consult inside sales.

**Note:** Minimum order of \$25.00. We recommend consolidating your parts and accessories orders to meet or exceed this amount.

## Entrapment Protection Devices

| Code   | Description   |
|--|---|
| <b>Primary Monitored External Entrapment Protection Devices</b>  |   |
| Manaras-Opera strongly recommends the use of external entrapment protection devices. The devices listed below connect to specific MONIT terminal on BOARD070M. |   |
| <b>Monitored Photoelectric Cells</b>   |   |
| <b>PHOTO062</b>  | Monitored, NEMA 1 enclosure, through-beam type, 4-wire, indoor, 30' range . . . . .   |
| <b>PHOTO064</b>  | Monitored, NEMA 4 enclosure, through-beam type, 4-wire, harsh environments, 30' range . . . . .   |
| <b>PHOTO061</b>  | Monitored, NEMA 4X enclosure, through-beam type, 4-wire, industrial environments, 45' range . . . . .   |
| <b>Monitored Electric Reversing Edges</b>  |   |
| <b>SENSEEDGE018UM</b>  | Monitored, electric edge MT-22, 10Kohms resistor, universal mount, for rolling doors with double angle bottom bar, to be used with INTERFACE002 . . . . . |
| <b>INTERFACE002</b>  | Interface module . . . . .  |

## Ancillary External Entrapment Protection Devices

Ancillary (secondary) external entrapment protection devices are optional and may be used to supplement primary monitored external entrapment protection devices or constant-pressure-to-close operation.

|   |  |
|---|--|
| <b>Non-Monitored Photoelectric Cells</b>                                    |  |
| <b>PHOTO008A</b>  | Non-monitored, NEMA 1 enclosure, through-beam type, indoor, 24V . . . . .  |
| <b>PHOTO018</b>   | Non-monitored, Omron E3K, NEMA 4/12/4X encl, retro-reflective, 24-240V, ext, 33' range . . . . .                         |
| <b>PHOTO038</b>   | Non-monitored, AB GRU, NEMA 4/4X/6P/12/13 encl, retro-reflective, 24VAC, ext, 30' range (incl 3" reflector) . . . . .    |
| <b>PHOTO032</b>   | Non-monitored, AB GRU, NEMA 4/4X/6P/12/13 encl, retro-reflective, 115-240V, ext, 30' range (incl 3" reflector) . . . . . |
| <b>PHOTO024</b>   | Photoelectric cell reflector 3", increases range of PHOTO018 to 40' . . . . .  |
| <b>PHOTO045</b>   | Non-monitored, EMX, NEMA 4X aluminum hood (PHOTO015), infrared through-beam type, 12-24V, ext . . . . .                  |
| <b>PHOTO058</b>   | Non-monitored, Omron, through-beam type, 24-240V, IP66 . . . . .   |
| <b>PHOTO059</b>   | Non-monitored, infrared modulated through-beam type, NEMA 4/7 Class I-Gr B/C/D, Class II-Gr E/F/G . . . . .              |
| <b>PHOTO050</b>   | Non-monitored, EMXP63, infrared modulated through-beam type . . . . .  |
| <b>PHOTO060</b>   | Non-monitored, NEMA 4/12 enclosure, retro-reflective type, 39' range (incl 3" reflector) . . . . .                       |
| <b>Non-Monitored Electric Reversing Edges (additional models available)</b> |  |
| <b>SENSEEDGE040</b>   | Non-monitored, electric edge MU-21, 2-wire, E/R/L/T mount, for sectional and sliding doors . . . . .                     |
| <b>SENSEEDGE021</b>   | Non-monitored, electric edge MU-22, 2-wire, E/R/L/T mount, for sectional and sliding doors . . . . .                     |
| <b>SENSEEDGE022</b>   | Non-monitored, electric edge MU-22, 4-wire, E/R/L/T mount, for failsafe circuits . . . . .                               |
| <b>SENSEEDGE018</b>   | Non-monitored, electric edge MT-22, 2-wire, E/R/L/U mount, for rolling doors with double angle bottom bar . . . . .      |
| <b>SENSEEDGE020</b>   | Non-monitored, electric edge MT-22, 4-wire, E/R/L mount, for failsafe circuits . . . . .                                 |
| <b>SENSEEDGE013</b>   | Non-monitored, electric edge ME-123, 2-wire, E/R/L/U mount, for sectional doors . . . . .                                |
| <b>SENSEEDGE014</b>   | Non-monitored, electric edge ME-123, 4-wire, E/R/L/U mount, for failsafe circuits . . . . .                              |
| <b>SENSEEDGE015</b>   | C-mounting channel ME-123C (other shapes available) . . . . .  |
| <b>SENSEEDGE007</b>   | Non-monitored, electric edge ME-113, 2-wire, E/R/L mount, for sectional doors . . . . .                                  |
| <b>SENSEEDGE008</b>   | Non-monitored, electric edge ME-113, 4-wire, E/R/L mount, for failsafe circuits . . . . .                                |
| <b>SENSEEDGE009</b>   | C-mounting channel ME-113C (other shapes available) . . . . .  |
| <b>SENSEEDGE002</b>   | Non-monitored, electric edge ME-110, 2-wire, E/R/L mount, for counter shutters and rolling grilles . . . . .             |
| <b>SENSEEDGE003</b>   | Non-monitored, electric edge ME-110, 4-wire, E/R/L mount, for failsafe circuits . . . . .                                |
| <b>SENSEEDGE004</b>   | C-mounting channel ME-110C (other shapes available) . . . . .  |

**Note:** When ordering, please specify your mounting option: End, Right, Left, Universal, Top.

**Note:** Minimum length is 4'. Please note that these products are made-to-order, therefore no returns or exchanges will be accepted.

**Note:** When ordering 4-wire electric edges, a fail safe sensing edge circuit (MOD004) must also be ordered (\$), consult inside sales.

Information subject to change without prior notice

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## Entrapment Protection Devices (Cont.)

| Code | Description |
|------|-------------|
|------|-------------|

### Ancillary External Entrapment Protection Devices (Cont.)

#### Non-Monitored Pneumatic Reversing Edge Kits

|                     |  |
|---------------------|--|
| <b>PNEUMATIC004</b> | Pneumatic edge kit for doors up to 14' high, with SPDT airswitch, 14' coil cord and hose plug . . . . .                            |
| <b>PNEUMATIC005</b> | Pneumatic edge kit for doors up to 20' high, with SPDT airswitch, 20' take-up reel and hose plug . . . . .                         |
| <b>PNEUMATIC006</b> | Hazardous location pneumatic edge kit for doors up to 20' high, hazardous location airswitch, 20' air coil and hose plug . . . . . |
| <b>PNEUMATIC007</b> | Pneumatic edge kit for doors up to 14' high, with Mosley airswitch, 14' coil cord and hose plug . . . . .                          |
| <b>PNEUMATIC008</b> | Pneumatic edge kit for doors up to 20' high, with Mosley airswitch, 20' take-up reel and hose plug . . . . .                       |
| <b>PNEUMATIC009</b> | Pneumatic edge kit for doors up to 30' high, with Mosley airswitch, 30' take-up reel and hose plug . . . . .                       |

**Note:** HOSE001 must be ordered separately according to door width + 2' for the pneumatic edge kits listed above.

**Note:** Weather stripping is not included with our pneumatic kits; it must be supplied by the door manufacturer.

|                     |   |
|---------------------|---|
| <b>PNEUMATIC010</b> | Pneumatic edge kit with Mosley airswitch, 20' take-up reel and 14' of HOSE001 . . . . . |
| <b>PNEUMATIC011</b> | Pneumatic edge kit with Mosley airswitch, 20' take-up reel and 22' of HOSE001 . . . . . |

**Note:** Weather stripping is not included with our pneumatic kits; it must be supplied by the door manufacturer.

#### Individual Pneumatic Edge Components

|                     |  |
|---------------------|--|
| <b>HOSE001</b>      | Air hose, soft rubber, EPT/EPDM, 1/2" inside diameter . . . . .                        |
| <b>HOSE009</b>      | Air hose, soft rubber, EPT/EPDM, 1/2" inside diameter, 3/4" outside diameter . . . . . |
| <b>AIRSWITCH007</b> | Exterior air switch, SPDT, adjustable . . . . .  |
| <b>AIRSWITCH008</b> | Metal case for AIRSWITCH007 . . . . .  |
| <b>AIRSWITCH009</b> | Exterior Mosley air switch, SPDT, plastic housing . . . . .                            |
| <b>PLUG005</b>      | Air hose plug for HOSE001 . . . . .  |

#### Sensing Edge Connection Accessories

|                   |   |
|-------------------|---|
| <b>REELITE005</b> | Metal take-up reel, 2-wire, 18 gauge, 20' extension . . . . . |
| <b>REELITE003</b> | Metal take-up reel, 3-wire, 18 gauge, 30' extension . . . . . |
| <b>COIL005</b>    | Coil cord, 2-wire, 18 gauge, 14' extension . . . . .          |
| <b>COIL001</b>    | Coil cord, 2-wire, 18 gauge, 20' extension . . . . .          |
| <b>COIL003</b>    | Coil cord, 4-wire, 18 gauge, 20' extension . . . . .          |
| <b>COIL010</b>    | Coil cord, 4-wire, 18 gauge, 25' extension . . . . .          |
| <b>COIL007</b>    | Coil cord, 3-wire, 18 gauge, 20' extension . . . . .          |

# Door Operator Accessories



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## Access Controls

| Code   | Description   |
|--|---|
| <b>Push-Button Control Stations</b>  |   |
| Allows for complete control of the door, with the use of one, two or three push-buttons. |   |
| <b>NEMA 1 – Surface Mount</b>  |   |
| <b>STATION001</b>  | One button, 1 N/O contact   |
| <b>STATION010</b>  | Two button, 2 N/O contacts  |
| <b>STATION020</b>  | Three button, 2 N/O contacts and 1 N/C contact for stop (French version, see STATION084)  |
| <b>NEMA 1 – Flush Mount</b>  |   |
| <b>STATION086</b>  | Three button, back box with bracket, 2 N/O contacts and 1 N/C contact for stop            |
| <b>NEMA 4/12 &amp; NEMA 4X – Surface Mount</b>   |   |
| <b>STATION081</b>  | One button, 1 N/O contact   |
| <b>STATION082</b>  | Two button, 2 N/O contact   |
| <b>STATION078</b>  | Three button, 2 N/O contacts and 1 N/C contact for stop                                   |
| <b>STATION079</b>  | Three button with key lock-out, 2 N/O contacts and 1 N/C contact for stop                 |
| <b>STATION080</b>  | Three button with key lock-out and pilot light, 2 N/O contacts and 1 N/C contact for stop |
| <b>STATION085</b>  | One mushroom head (red) emergency-stop, spring return, 1 N/C contact                      |
| <b>NEMA 4/12 – Surface Mount – Cast Metal</b>  |   |
| <b>STATION056</b>  | Three button, 2 N/O contacts and 1 N/C contact for stop                                   |
| <b>STATION057</b>  | Three button with key lock-out, 2 N/O contacts and 1 N/C contact for stop                 |
| <b>NEMA 7/9 (Hazardous Location) – Surface Mount</b>                                     |   |

CSA Certified and UL Listed for Class I, Divisions 1 and 2, Groups C and D, Class II, Divisions 1 and 2, Groups E, F, G Hazardous Location.

|                   |   |
|-------------------|---|
| <b>STATION049</b> | Three button, 2 N/O contacts and 1 N/C contact for stop                   |
| <b>STATION050</b> | Three button with key lock-out, 2 N/O contacts and 1 N/C contact for stop |

**! Stop buttons are not provided on the two push-button stations. They should only be used with operators wired for constant pressure to open and close (D1 operating mode).**

## Key Switch Control Stations

Allows for complete control of the door.

|                     |   |
|---------------------|---|
| <b>KEYSWITCH015</b> | Single key, open/close, exterior, cast iron encl, tamper-proof, surface mount, center return                  |
| <b>KEYSWITCH017</b> | Single key, 2-positions on/off, exterior, cast iron encl, tamper-proof, surface mount                         |
| <b>KEYSWITCH019</b> | Single key, open/close with stop button, exterior, cast iron encl, tamper-proof, surface mount, center return |
| <b>KEYSWITCH010</b> | Single key, open/close, interior, tamper-proof, flush mount, center return                                    |
| <b>KEYSWITCH034</b> | Single key, 1 momentary N/O contact, exterior, cast aluminum encl, wall or post mount, center return          |
| <b>KEYSWITCH006</b> | Replacement cylinder (for KEYSWITCH034)   |
| <b>KEYSWITCH023</b> | Replacement switch, SPST momentary N/O contact, 6A at 125VAC, 3A at 250VAC (for KEYSWITCH034)                 |

**! Key switches without stop buttons should only be used with operators wired for constant-pressure-to-open/close (D1 operating mode).**

## Ceiling Pull Cord Control Stations

Pull switches may be used as an open only or open/close control with B2 operating mode.

|                    |  |
|--------------------|--|
| <b>PULLCORD001</b> | Pull-switch control, exterior, cast iron encl, SPST contact              |
| <b>PULLCORD002</b> | Pull-switch control, exterior, cast iron encl, DPST contact              |
| <b>PULLCORD003</b> | Pull-switch control, swivel-type, exterior, cast iron encl, SPST contact |

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# Door Operator Accessories

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## Access Controls (Cont.)

| Code | Description |
|------|-------------|
|------|-------------|

### Digital Key Pad

|                   |   |
|-------------------|---|
| <b>KEYLESS002</b> | Exterior digital key pad with light, cast aluminum encl, 1000 codes (2-6 digits), 12-24VAc/dc |
|-------------------|---|

### Radio Controls (Commercial and Industrial)

A range of 313 MHz radio receivers and transmitters for open/close type B2 operating mode. 1024 possible code combinations available with a 10-digit binary dip-switch.

| 313 MHz Open/Close Radio Controls, Single Fixed Code |   |
|--|---|
| <b>RADIO027</b>                                      | MT-1000, single-button transmitter, 1 door  |
| <b>RADIO016</b>                                      | MT2-1000, two-button transmitter, 2 doors   |
| <b>RADIO022</b>                                      | MT3-1000, three-button transmitter, 3 doors   |
| <b>RADIO028</b>                                      | MTM-1000, single-button mini transmitter, 1 door  |
| <b>RADIO014</b>                                      | MR-1000, 24V receiver, 1 channel  |
| <b>RADIO015</b>                                      | MRX-1000, 24V receiver, incl commercial receiver antenna for increased range, 1 channel |
| <b>RADIO029</b>                                      | Commercial receiver antenna   |
| <b>CONNECTOR036</b>                                  | BNC straight jack receptacle panel mount  |
| <b>CABLE015</b>                                      | Extension 15' coaxial cable for antenna from receiver RADIO015                          |

| 313 MHz Open/Close/Stop Radio Controls, Single Fixed Code |  |
|---|--|
| <b>RADIO047</b>   | MCT-1, three-button transmitter, 1 door  |
| <b>RADIO042</b>   | MCT-4, three-button transmitter, 4 doors   |
| <b>RADIO050</b>   | MCT-32, three-button transmitter, 32 doors   |
| <b>RADIO037</b>   | MCR-32, 24V receiver, NEMA 1 encl, incl commercial receiver, antenna for increased range, 1 channel    |
| <b>RADIO031</b>   | MCR-32, 24V receiver, NEMA 4/12 encl, incl commercial receiver, antenna for increased range, 1 channel |

### 390 MHz Radio Controls, Rolling Code

Radio transmitters and direct ECB plug-in receiver cards featuring rolling code technology. Plug-in receiver cards dedicated for BOARD070 equipped operators. Also compatible with previous BOARD060 equipped or electromechanical operators.

|                     |  |
|---------------------|--|
| <b>RADIOEM101</b>   | Single-button transmitter, 1 door, configured as traditional commercial sequence or SBC  |
| <b>RADIOEM103SD</b> | Three-button transmitter, configured as open/close/stop, 1 door  |
| <b>RADIOEM103MD</b> | Three-button transmitter, configured as 3 x single-button, multiple doors  |
| <b>RADIORE101C</b>  | Direct ECB plug-in receiver card (factory installed), 16 transmitters max./receiver  |
| <b>RADIOKIT004</b>  | Direct ECB plug-in receiver card kit RADIORE101C (on site installation), 16 transmitters max./receiver   |
| <b>RADIOKIT005</b>  | Direct ECB plug-in receiver card kit RADIORE100B (on site installation), 16 transmitters max./receiver for previous BOARD060 equipped or electromechanical operators |

**Note:** SBC = Single Button Control. The SBC provides the user with the possibility to open, stop or close the door by using a single-button radio transmitter (or a single push-button station).

# Door Operator Accessories



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## Vehicle Detection Systems

| Code | Description |
|------|-------------|
|------|-------------|

### Vehicle Loop Detectors

To detect the presence or passage of a vehicle. To be used in conjunction with an inductive wire loop embedded in the pavement. Open only control or as a reverse and hold open control for an operator with B2, C2 or timer to close operating mode.

|                 |   |
|-----------------|---|
| <b>LOOP008</b>  | Single loop detector 24VAC, dual relay output . . . . .                                       |
| <b>LOOP007</b>  | Single loop detector 120VAC, dual relay output . . . . .                                      |
| <b>LOOP035</b>  | Single loop detector 24VAC, with harness, dual relay output . . . . .                         |
| <b>LOOP035A</b> | Single loop detector 9VDC-240VAC universal voltage, with harness, dual relay output . . . . . |
| <b>RELAY021</b> | Socket base for loop detectors, 11-pin . . . . .  |

### Pre-formed Inductive Loops

|                |  |
|----------------|--|
| <b>LOOP015</b> | Pre-formed loop, pave-over style, 30' of wire lead, 4' x 8' size . . . . . |
| <b>LOOP027</b> | Pre-formed loop, saw cut style, 30' of wire lead, 4' x 8' size . . . . .   |

### Treadles

The weight of a vehicle on the treadle hose activates a contact which can give an open or reversing command to the operator with B2, C2, or timer to close operating mode. No power is needed.

|                   |  |
|-------------------|--|
| <b>TREADLE001</b> | Electric treadle, surface mount, 5' . . . . .  |
| <b>TREADLE002</b> | Pneumatic treadle kit, 10' signal hose, exterior SPDT air switch and hose plug . . . . . |

### Motion Detector

Detects the motion of vehicles or pedestrians in a wide area in front of the door. It can give an open or reversing command for an operator with B2, C2, or timer to close operating mode.

|                  |   |
|------------------|---|
| <b>MOTION003</b> | Motion detector, 12-24VAC/DC, bi-directional, incl remote control for long distance programming . . . . . |
|------------------|---|

## Audible and Visible Warning Devices

### Warning Lights and Light Boxes

|                    |  |
|--------------------|--|
| <b>TRAFFIC028A</b> | Red LED 8" traffic light kit, incl mounting support kit, 120VAC . . . . .                                  |
| <b>TRAFFIC033A</b> | Green LED 8" traffic light kit, incl mounting support kit, 120VAC . . . . .                                |
| <b>TRAFFIC029A</b> | Red and green LED 8" traffic light kit, incl mounting support kit, 120VAC . . . . .                        |
| <b>TRAFFIC007A</b> | Red LED 8" replacement lens, 120VAC . . . . .  |
| <b>TRAFFIC008A</b> | Yellow LED 8" replacement lens, 120VAC . . . . .   |
| <b>TRAFFIC009A</b> | Green LED 8" replacement lens, 120VAC . . . . .  |
| <b>TRAFFIC032</b>  | Red and green LED 8" traffic light kit, incl mounting support kit, 12V . . . . .                           |
| <b>TRAFFIC036A</b> | Red and green LED 4-1/4" traffic lights, yellow casing is standard, 120VAC . . . . .                       |
| <b>TRAFFIC037A</b> | Red and green LED 4-1/4" traffic lights, yellow casing is standard, 24VAC/DC . . . . .                     |
| <b>TRAFFIC030</b>  | Red and green LED traffic lights, 22.5" x 9", ultra thin 1/2" design, incl 15' of wire, 24VAC/DC . . . . . |
| <b>LIGHTBOX001</b> | Traffic light box 120VAC for 2 incandescent light bulbs, incl sockets . . . . .                            |
| <b>LIGHTBOX002</b> | Traffic light box 240V/120VAC-100VA for 2 incandescent light bulbs, incl sockets . . . . .                 |
| <b>LIGHTBOX003</b> | Traffic light box 208V/120VAC-100VA for 2 incandescent light bulbs, incl sockets . . . . .                 |
| <b>LIGHTBOX004</b> | Traffic light box 480V/120VAC-100VA for 2 incandescent light bulbs, incl sockets . . . . .                 |
| <b>LIGHTBOX005</b> | Traffic light box 600V/120VAC-100VA for 2 incandescent light bulbs, incl sockets . . . . .                 |

**Note:** Must be ordered with MOD016 or MOD027 or WLMODULE002. Bulbs, fittings and extra wiring are not supplied with the light boxes.

### Horn/Strobe

|                |  |
|----------------|--|
| <b>HORN015</b> | White horn/strobe, weatherproof backbox, incl rectifier, 24Vdc . . . . . |
|----------------|--|

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## Miscellaneous

### Code

### Description

## Miscellaneous Control Equipment

### Emergency Egress Control

For quick disconnect of operators (models OPJ, OHJ) in case of an emergency egress.

**EMERGENCY001** Emergency egress device, incl handle flush with face plate, 15' cable, S-hook . . . . .

### Interlock Switches

Prevents the control of the operator when the door is locked. The switch is a normally closed contact which is connected to the operator interlock terminal.

**INTERLOCK005** Door interlock switch for sectional doors . . . . .

**INTERLOCK004** Door interlock switch for rolling grilles . . . . .

## Mounting Accessories and Hardware

### Chain Spreaders

Allows for proper alignment of the operator and door sprockets as well as providing proper tension on the drive system.

**SPREADER001** Chain spreader 1"/1", incl 2 shaft collars and set screws . . . . .

**SPREADER002** Chain spreader 1"/1-1/4", incl 2 shaft collars and set screws . . . . .

**SPREADER003** Chain spreader 1-1/4"/1-1/4", incl 2 shaft collars and set screws . . . . .

**Note:** Spreader bars are not available for application above 1.5HP.

### Mounting Brackets

**BRACKET111** Cast iron hood angle mounting bracket - Applies to OMJ, OMH, OPJ, OPH, OHJ, OSH, OGH . . . . .

**BRACKET112** Wall mounting bracket, incl steel plate with 4 studs - Applies to OMJ, OMH, OPJ, OPH, OHJ, OSH, OGH . . . . .

### Operator Covers

**SPLASH001** Splash proof operator cover 21" x 28" x 22" - Applies to OGH & MGH up to 2HP . . . . .

**SPLASH003** Splash proof operator cover 22" x 30" x 16" - Applies to OPJ, OPH, OHJ, OSH . . . . .

**SPLASH005** Splash proof operator cover 20" x 27" x 23" - Applies to MLT, OTH, OTBH . . . . .

**Note:** Operator covers for other models are built to order, please consult inside sales for further details.

### Crank Shaft

**SHAFT002** Hand crank shaft 5/8", up to 12' long (cut to customer specified length) . . . . .

**Note:** Please note that this is a made-to-order product, therefore no returns or exchanges will be accepted.



# Replacement Components

For additional information, availability or additional replacement components not listed, please consult inside sales.

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## Standard Hardware

| Code                         | Description                                    |
|------------------------------|--|
| <b>CABLE008</b>              | Disconnect cable, 25'.....                     |
| <b>CARRIAGE006</b>           | Trolley carriage, alum. die cast.....          |
| <b>CHAIN002</b>              | Hoist chain, yellow zinc plated .....          |
| <b>CHAIN010</b>              | #48 (#410) trolley chain pkg (up to 12') ..... |
| <b>CHAIN011</b>              | #48 (#410) trolley chain pkg, 2' .....         |
| <b>CHAIN013</b>              | Chain #41 .....                                |
| <b>CHAIN023</b>              | #41 trolley chain pkg (up to 12').....         |
| <b>CHAIN027</b>              | #41 trolley chain pkg, 4'.....                 |
| <b>CHAIN030</b>              | Jackshaft drive chain #50 4' c/w link.....     |
| <b>CHAIN031</b>              | Jackshaft drive chain #50 5' c/w link.....     |
| <b>CHAIN064</b>              | Disconnect chain .....                         |
| <b>CHAINKEEPER001</b>        | Chain keeper for hand chain .....              |
| <b>CHAINKEEPER002</b>        | Chain keeper for disconnect chain .....        |
| <b>CHAINKIT001</b>           | Disconnect chain kit 14' (OHJ) .....           |
| <b>CHAINKIT002</b>           | Disconnect chain kit 14' extension.....        |
| <b>CHAINKIT002A</b>          | Disconnect chain kit 14' extension (OHJ).....  |
| <b>CHAINKIT004</b>           | Disconnect chain kit 28' extension.....        |
| <b>DISCONNECT001</b>         | Floor level disconnect lever.....              |
| <b>DOORARM001</b>            | Door lifting arm assembly.....                 |
| <b>FRONTIDLER006</b>         | #41 very heavy-duty front idler.....           |
| <b>FRONTIDLER007</b>         | #48 (#410) front idler assembly.....           |
| <b>FRONTIDLER010</b>         | #41 front idler assembly.....                  |
| <b>HD1-HBAG</b>              | Jackshaft hardware bag.....                    |
| <b>SHAFT017</b>              | Spacer for trolley tracks.....                 |
| <b>SPR41B12X1</b>            | Spr. 41B12 1" bore 1/4" kw .....               |
| <b>SPR41B14X1</b>            | Spr. 41B14 1" bore 1/4" kw .....               |
| <b>SPR41B18X1</b>            | Spr. 41B18 1" bore 1/4" kw .....               |
| <b>SPR41B23X1</b>            | Spr. 41B23 1" bore 1/4" kw .....               |
| <b>SPR41B36X1</b>            | Spr. 41B36 1" bore 1/4" kw .....               |
| <b>SPR41B48X1</b>            | Spr. 41B48 1" bore 1/4" kw .....               |
| <b>SPR50B12x1 &amp; 11/4</b> | Spr. 50B12 1" & 1-1/4" bore 1/4" kw .....      |
| <b>SPR50B14X1</b>            | Spr. 50B14 1" bore 1/4" kw .....               |
| <b>SPR50B18x1 &amp; 11/4</b> | Spr. 50B18 1" & 1-1/4" bore 1/4" kw .....      |
| <b>SPR50B23x1 &amp; 11/4</b> | Spr. 50B23 1" & 1-1/4" bore 1/4" kw .....      |
| <b>SPR50B36x1 &amp; 11/4</b> | Spr. 50B36 1" & 1-1/4" bore 1/4" kw .....      |
| <b>SPR50B42x1 &amp; 11/4</b> | Spr. 50B42 1" & 1-1/4" bore 1/4" kw .....      |
| <b>SPR50B54x1 &amp; 11/4</b> | Spr. 50B54 1" & 1-1/4" bore 1/4" kw .....      |
| <b>SPR50B60x1 &amp; 11/4</b> | Spr. 50B60 1" & 1-1/4" bore 1/4" kw.....       |
| <b>SPR50B72x11/4</b>         | Spr. 50B72 1-1/4" bore 1/4" kw .....           |
| <b>T2-HBAG</b>               | Trolley hardware bag.....                      |
| <b>TL-BAG001</b>             | Track link hardware for >20' .....             |
| <b>TRACK001</b>              | One galvanized track 2"x2"x9'6" .....          |
| <b>TRACK002</b>              | One galvanized track 2"x2"x10'6" .....         |
| <b>TRACK003</b>              | One galvanized track 2"x2"x12'6".....          |
| <b>TRACK004</b>              | One galvanized track 2"x2"x14'6".....          |
| <b>TRACK005</b>              | One galvanized track 2"x2"x16'6".....          |
| <b>TRACK006</b>              | One galvanized track 2"x2"x18'6".....          |
| <b>TRACK007</b>              | One galvanized track 2"x2"x20'6" .....         |

## Electric Motors

| Code            | Description   |
|-----------------|---|
|                 | Instant reverse, medium-duty, 120V, 1Ph, 60Hz, 1/2HP              |
| <b>MOTOR189</b> | 1050 rpm, MLJ, MLH, MLT .....                                     |
| <b>MOTOR403</b> | 1500 rpm, OMJ/OMH.....  |
|                 | Instant reverse, intermittent-duty, 1/2HP, 120/240V, 1Ph, 60Hz    |
|                 | For MTBL, MJ, MJH, MTH, MTBH. Motor relay not required.           |
| <b>MOTOR009</b> | 1725 rpm, built-in reset.....                                     |
|                 | Continuous-duty, base mount, ODP, 60Hz                            |
| <b>MOTOR254</b> | 1/2HP, 120/240V, 1Ph.....   |
| <b>MOTOR255</b> | 3/4HP, 120/240V, 1Ph.....   |
| <b>MOTOR256</b> | 1HP, 120/240V, 1Ph.....   |
| <b>MOTOR271</b> | 1/2HP, 208/480V, 3Ph.....   |
| <b>MOTOR273</b> | 3/4HP, 208/480V, 3Ph.....   |
| <b>MOTOR275</b> | 1HP, 208/480V, 3Ph.....   |
| <b>MOTOR272</b> | 1/2HP, 600V, 3Ph .....  |
| <b>MOTOR274</b> | 3/4HP, 600V, 3Ph .....  |
| <b>MOTOR276</b> | 1HP, 575V, 3Ph .....  |
|                 | Continuous-duty, C-flange, ODP, 60Hz                              |
| <b>MOTOR336</b> | 1/2HP, 120/240V, 1Ph.....   |
| <b>MOTOR337</b> | 3/4HP, 120/240V, 1Ph.....   |
| <b>MOTOR350</b> | 1HP, 120/240V, 1Ph.....   |
| <b>MOTOR355</b> | 1-1/2HP, 120/240V, 1Ph.....                                       |
| <b>MOTOR357</b> | 1/2HP, 208/480V, 3Ph.....   |
| <b>MOTOR358</b> | 3/4HP, 208/480V, 3Ph.....   |
| <b>MOTOR359</b> | 1HP, 208/480V, 3Ph.....   |
| <b>MOTOR361</b> | 1-1/2HP, 208/480V, 3Ph.....                                       |
| <b>MOTOR383</b> | 2HP, 208/480V, 3Ph.....   |
| <b>MOTOR384</b> | 3/4HP, 600V, 3Ph .....  |
| <b>MOTOR385</b> | 1HP, 600V, 3Ph .....  |
| <b>MOTOR386</b> | 1-1/2HP, 600V, 3Ph .....  |
| <b>MOTOR387</b> | 2HP, 600V, 3Ph .....  |
|                 | Continuous-duty, base mount, TEFC, 60Hz. For NEMA 4/12 type appl. |
| <b>MOTOR257</b> | 1/2HP, 120/240V, 1Ph.....   |
| <b>MOTOR258</b> | 3/4HP, 120/240V, 1Ph.....   |
| <b>MOTOR259</b> | 1HP, 120/240V, 1Ph.....   |
| <b>MOTOR277</b> | 1/2HP, 208/480V, 3Ph.....   |
| <b>MOTOR279</b> | 3/4HP, 208/480V, 3Ph.....   |
| <b>MOTOR281</b> | 1HP, 208/480V, 3Ph.....   |
| <b>MOTOR280</b> | 3/4HP, 600V, 3Ph .....  |
| <b>MOTOR282</b> | 1HP, 600V, 3Ph .....  |
|                 | Continuous-duty, C-Flange, TEFC, 60Hz                             |
| <b>MOTOR316</b> | 1/2HP, 120/240V, 1Ph.....   |
| <b>MOTOR317</b> | 3/4HP, 120/240V, 1Ph.....   |
| <b>MOTOR318</b> | 1HP, 120/240V, 1Ph.....   |
| <b>MOTOR319</b> | 1-1/2HP, 120/240V, 1Ph.....                                       |
| <b>MOTOR262</b> | 3/4HP, 208/480V, 3Ph.....   |
| <b>MOTOR264</b> | 1HP, 208/480V, 3Ph.....   |
| <b>MOTOR266</b> | 1-1/2HP, 208/480V, 3Ph.....                                       |
| <b>MOTOR268</b> | 2HP, 208/480V, 3Ph.....   |
| <b>MOTOR263</b> | 3/4HP, 600V, 3Ph .....  |
| <b>MOTOR265</b> | 1HP, 600V, 3Ph .....  |
| <b>MOTOR072</b> | 1-1/2HP, 600V, 3Ph .....  |
| <b>MOTOR270</b> | 2HP, 600V, 3Ph .....  |

Information subject to change without prior notice

# Replacement Components

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## Auxiliary Contacts

| Code             | Description  |
|------------------|--|
| <b>AUXCON039</b> | Allen Bradley auxiliary 1NO/1NC for CONTACTOR003/043 ..... |
| <b>AUXCON045</b> | Telemecanique auxiliary 1NO/1NC for CONTACTOR044 .....     |
| <b>AUXCON046</b> | Telemecanique auxiliary 4NO for CONTACTOR044 .....         |

## Brakes & Components

|                     |   |
|---------------------|---|
| <b>BRAKE011</b>     | Band brake assembly kit OTBH, OSL .....           |
| <b>BRAKE012</b>     | Band brake retrofit kit GH/MGH .....              |
| <b>BRAKE013</b>     | Band brake assembly kit OSH .....                 |
| <b>BRAKE014</b>     | Drum-shoe brake kit (no solenoid) OTBH .....      |
| <b>BRAKE014A-D</b>  | Drum-shoe brake kit OTBH .....                    |
| <b>BRAKE015</b>     | Drum-shoe brake kit (no solenoid) OTBH-A.05 ..... |
| <b>BRAKE015A-D</b>  | Drum-shoe brake kit OTBH-A.05 .....               |
| <b>BRAKEPART016</b> | Brake pad assembly MLT .....                      |
| <b>BRAKEPART018</b> | Brake shoe assembly kit (SHOE001/002) .....       |
| <b>BRAKEPART019</b> | Brake band assembly std brake .....               |
| <b>BRAKEPART020</b> | Brake shoe assembly kit (SHOE021/022) .....       |
| <b>DRUM005</b>      | Steel brake drum 5/8" .....                       |
| <b>DRUM006</b>      | Steel brake drum flat track .....                 |
| <b>MODKIT111</b>    | Solenoid brake kit OPJ .....                      |

## Capacitors

|                      |  |
|----------------------|--|
| <b>CAPACITOR030R</b> | 270-324µF capacitor, incl bleeder resistor ..... |
| <b>CAPACITOR031R</b> | 324-389µF capacitor, incl bleeder resistor ..... |
| <b>CAPACITOR015R</b> | 340-408µF capacitor, incl bleeder resistor ..... |
| <b>CAPACITOR008R</b> | 440-648µF capacitor, incl bleeder resistor ..... |
| <b>CAPACITOR024</b>  | 70µF, 250VAC, 50/60Hz capacitor .....            |
| <b>RESISTOR004</b>   | Capacitor resistor 300Ohms 5W .....              |

## Contactors (Reversing)

|                     |   |
|---------------------|---|
| <b>CONTACTOR003</b> | Repl. kit rev contactor 16A-24VAC ..... |
| <b>CONTACTOR041</b> | Reversing contactor 1Ph-9A-24VAC .....  |
| <b>CONTACTOR042</b> | Reversing contactor 3Ph-9A-24VAC .....  |
| <b>CONTACTOR043</b> | Reversing contactor 16A-24VAC .....     |
| <b>CONTACTOR044</b> | Telemecanique contactor 12A-24VAC ..... |
| <b>CONTACTOR045</b> | Telemecanique contactor 18A-24VAC ..... |

## Electronic Control Boards

|                    |   |
|--------------------|---|
| <b>BOARD075M</b>   | Repl. board kit (monitoring) .....            |
| <b>BOARD075E</b>   | Repl. board kit (no monitoring) .....         |
| <b>BOARD070MR</b>  | Repl. control board (monitoring) .....        |
| <b>BOARD070ER</b>  | Repl. control board (no monitoring) .....     |
| <b>BOARD066R</b>   | Repl. univ. power board BOARD070 & prev ..... |
| <b>BOARD065</b>    | Repl. univ. board kit BOARD060 & prev .....   |
| <b>BOARD060R</b>   | Repl. control board BOARD060 & prev .....     |
| <b>BOARD062</b>    | Repl. board MA-100 .....                      |
| <b>BOARD063</b>    | Repl. board MA-100 M85/MHD85 .....            |
| <b>BOARD064</b>    | Repl. board SS-90/100 .....                   |
| <b>WLMODULE001</b> | Univ. aux. output module BOARD060 .....       |
| <b>WLMODULE002</b> | Univ. aux. output module BOARD070 .....       |

## Limit Switches

| Code             | Description                                   |
|------------------|---|
| <b>LIMIT006</b>  | Cherry, micro, SPDT, flat lever .....         |
| <b>LIMIT015</b>  | Cherry, SPDT, no act .....                    |
| <b>LIMIT018</b>  | Cherry, dble, 2xSPDT, no act .....            |
| <b>LIMIT020</b>  | Unimax, snap-act, SPDT, no act .....          |
| <b>LIMIT021</b>  | Unimax, snap-act, SPDT, lever flat .....      |
| <b>LIMIT023</b>  | Unimax, snap-act, SPDT, lever 46D .....       |
| <b>LIMIT024</b>  | Unimax, dble, snap-act sw, 2xSPDT, flat ..... |
| <b>LIMIT024A</b> | Unimax, dble, snap-act sw, 2xSPDT, 46° .....  |
| <b>LIMIT025</b>  | Unimax, snap-act, SPDT, flat lever .....      |
| <b>LIMIT025A</b> | Unimax, snap-act, SPDT, "S" lever .....       |
| <b>LIMIT025B</b> | Unimax, snap-act, SPDT, "end-bend" .....      |
| <b>LIMIT025C</b> | Unimax, snap-act, SPDT, "V" lever .....       |

## Mountshafts & Components

|                       |  |
|-----------------------|--|
| <b>MOUNTSHAFT020</b>  | Clutch shaft kit OPJ .....                                       |
| <b>MOUNTSHAFT014</b>  | Clutch shaft kit OPH .....                                       |
| <b>MOUNTSHAFT016</b>  | Clutch shaft kit OSH .....                                       |
| <b>MOUNTSHAFT007</b>  | Clutch shaft kit MTBH .....                                      |
| <b>MOUNTSHAFT017</b>  | Clutch shaft kit MTH/MTBH (no pulley) .....                      |
| <b>MOUNTSHAFT012</b>  | Clutch shaft kit MSJ .....                                       |
| <b>MOUNTSHAFT001A</b> | Clutch shaft kit MJH .....                                       |
| <b>MOUNTSHAFT001</b>  | Clutch shaft kit MJH (pre-1998) .....                            |
| <b>MOUNTSHAFT009</b>  | Clutch shaft kit MAPT/MTBL 18UNF .....                           |
| <b>MOUNTSHAFT009A</b> | Clutch shaft kit MAPT/MTBL 24UNF .....                           |
| <b>MOUNTSHAFT015</b>  | Hoist shaft kit OGH .....  |
| <b>MOUNTSHAFT013</b>  | Hoist shaft kit GH/MGH .....                                     |
| <b>MOUNTSHAFT010A</b> | Hoist shaft kit MJH .....  |
| <b>MOUNTSHAFT010</b>  | Hoist shaft kit MJH (pre-1998) .....                             |
| <b>MOUNTSHAFT018</b>  | Limit shaft kit Opera .....                                      |
| <b>MOUNTSHAFT018A</b> | Limit shaft kit MGH up to 1.5HP .....                            |
| <b>MOUNTSHAFT018B</b> | Limit shaft kit MGH 2,3,5HP .....                                |
| <b>MOUNTSHAFT018C</b> | Limit shaft kit MGH (pre-2011) up to 1.5HP .....                 |
| <b>MOUNTSHAFT018D</b> | Limit shaft kit MGH (pre-2011) 2,3,5HP .....                     |
| <b>MOUNTSHAFT018E</b> | Limit shaft kit op. w/ damp/corrosive env. .....                 |
| <b>MOUNTSHAFT018F</b> | Limit shaft kit MTH/MTBH .....                                   |
| <b>CAM004</b>         | Limit cam incl in MSHAFT009A/018C/018D .....                     |
| <b>CAM005</b>         | Limit cam incl in MSHAFT009 .....                                |
| <b>CAM011</b>         | Limit cam incl in MSHAFT018A/018B .....                          |
| <b>CLUTCHPAD005</b>   | Clutch pad ID 5/8" - OD 4" .....                                 |
| <b>CLUTCHPAD007</b>   | Clutch pad ID 1-3/4" - OD 5" .....                               |
| <b>CLUTCHPAD008</b>   | Clutch pad ID 1" - OD 4" .....                                   |
| <b>POCKETWHEEL005</b> | Pocketwheel Opera .....  |
| <b>POCKETWHEEL007</b> | Pocketwheel assembly Opera .....                                 |
| <b>PULLEY014</b>      | Motor pulley standard 2" x 5/8" 5L/B .....                       |
| <b>PULLEY020</b>      | Motor pulley 7" x 5/8", incl in MSHAFT001/001A/007/011/014 ..... |
| <b>MODKIT074</b>      | Hand crank modification kit .....                                |
| <b>MODKIT112</b>      | Limit shaft speed-up kit for in field upgr. .....                |



# Replacement Components

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## Overloads - 1 Phase

| Code     | Description              |
|----------|--------------------------|
| RESET002 | Resettable fuse 5A.....  |
| RESET003 | Resettable fuse 6A.....  |
| RESET004 | Resettable fuse 7A.....  |
| RESET005 | Resettable fuse 8A.....  |
| RESET006 | Resettable fuse 9A.....  |
| RESET007 | Resettable fuse 10A..... |
| RESET010 | Resettable fuse 13A..... |
| RESET012 | Resettable fuse 15A..... |
| RESET014 | Resettable fuse 17A..... |

## Overloads - 3 Phase

|             |                                  |
|-------------|----------------------------------|
| OVERLOAD002 | Telemecanique, 1.2-1.8A.....     |
| OVERLOAD003 | Telemecanique, 1.8-2.6A.....     |
| OVERLOAD026 | Telemecanique, 2.6-3.7A.....     |
| OVERLOAD029 | Telemecanique, 3.7-5.5A.....     |
| OVERLOAD041 | Telemecanique, 5.5-8.0A.....     |
| OVERLOAD042 | Telemecanique, 8.0-11.5A.....    |
| OVERLOAD019 | Telemecanique overload base..... |

## Relays

|          |                         |
|----------|-------------------------|
| RELAY024 | Relay DPDT 24VAC.....   |
| RELAY026 | Relay DPDT 120VAC.....  |
| RELAY027 | Relay DPDT 240VAC.....  |
| RELAY039 | Relay 3 pole 24VAC..... |
| RELAY043 | Relay 4 pole 24VAC..... |
| RELAY068 | Relay SPST 24VDC.....   |

## Solenoid Switches

|             |                            |
|-------------|----------------------------|
| SOLENOID001 | 120V, solenoid switch..... |
| SOLENOID002 | 240V, solenoid switch..... |
| SOLENOID003 | 440V, solenoid switch..... |
| SOLENOID004 | 575V, solenoid switch..... |

## Transformers - Class II 24VAC

|           |                        |
|-----------|------------------------|
| TRANSF143 | 120/240-24V, 40VA..... |
| TRANSF037 | 240/208-24V, 40VA..... |
| TRANSF088 | 480-24V, 40VA.....     |
| TRANSF142 | 575-24V, 40VA.....     |
| TRANSF006 | 120-24V, 50VA.....     |
| TRANSF016 | 208-24V, 50VA.....     |
| TRANSF089 | 480-24V, 50VA.....     |
| TRANSF112 | 575-24V, 50VA.....     |
| TRANSF003 | 120-24V, 100VA.....    |
| TRANSF017 | 208-24V, 100VA.....    |
| TRANSF050 | 240-24V, 100VA.....    |
| TRANSF087 | 480-24V, 100VA.....    |
| TRANSF107 | 575-24V, 100VA.....    |

## Timers & Counters

| Code       | Description                                 |
|------------|---|
| TIMER031   | Timer 24/240V, 1s-100h.....                 |
| RELAY022   | Socket base for TIMER031.....               |
| TIMER011   | Time delay 24-110V, 0.5s.....               |
| TIMER013   | Time delay 24V, 1.5s.....                   |
| TIMER014   | Time delay 0-1023s.....                     |
| TIMER016   | Dual timer 24V, 0-230s.....                 |
| TIMER032   | Digital timer 24V, 7d.....                  |
| MODKIT003  | Time delay kit, 1.5s.....                   |
| MODKIT013  | Timer to close kit, 0s-100h.....            |
| MODKIT013A | Timer to close kit, 0s-100h, med-duty.....  |
| CYCLE006   | Non-resettable counter, panel mount.....    |
| CYCLE008   | N4 non-resettable counter, flush mount..... |
| MODKIT012  | Non-resettable cycle counter kit.....       |

## V-Belts

|            |   |
|------------|---|
| VBELT4L340 | V-belt 4L, 34", MTH/MTBH APE, APT.....          |
| VBELT4L360 | V-belt 4L, 36", MJ/MJH.....                     |
| VBELT5L350 | V-belt 5L, 35", MTH, MTBH, MSL.....             |
| VBELTA24   | V-belt, 24", type A, MLT.....                   |
| VBELTA30   | V-belt, 30", type A, OTH/OTBH-A.00.....         |
| VBELTAX30  | V-belt, AX cogged type, OTBH-A.05.....          |
| VBELTB26   | V-belt 5L, 26", type B, OMJ, OMH.....           |
| VBELTB29   | V-belt 5L, 29", type B, OPJ, OHJ, OPH, OSH..... |
| VBELTB30   | V-belt, 30", type B, OTH, OTBH, OSL.....        |
| VBELTBX30  | V-belt, BX cogged type, OSH-DR.....             |

## Miscellaneous

|            |   |
|------------|---|
| FUSE006    | 2A fuse.....                              |
| MODKIT004  | Fail safe sensing edge circuit kit.....   |
| MODKIT011  | Long distance control wiring kit.....     |
| MODKIT064B | Trolley hoist #410 brake release kit..... |
| MODKIT065B | Trolley hoist #41 brake release kit.....  |