4.15- LOW ENERGY OPERATOR, CONCEALED ARM, ON HM/WD/AL FRAME

• 4.15.01 - LE OPERATOR, AL FRAME, CONCEALED ARM, RH-OUT
• 4.15.02 - LE OPERATOR, AL FRAME, CONCEALED ARM, LH-OUT
• 4.15.03 - LE OPERATOR, AL FRAME, CONCEALED ARM, PAIR OUT
• 4.15.04 - LE OPERATOR, HM/WD FRAME, CONCEALED ARM, RH-OUT
• 4.15.05 - LE OPERATOR, HM/WD FRAME, CONCEALED ARM, LH-OUT
• 4.15.06 - LE OPERATOR, HM/WD FRAME, CONCEALED ARM, PAIR OUT
M-FORCE™
(NEXT GENERATION MAGIC-FORCE™)

POWER
CONTROL

ACCESS
COVER

M-FORCE
OPERATOR
AND
HEADER

TRACK

DOOR ARM

CONCEALING
CHANNEL

1 1/2" [38]
MIN. RAIL
DEPTH

5 1/2" [140]

POWER

CONTROLS

M-FORCE
HEADER

① VERTICAL SECTION

② HORIZONTAL SECTION

DOOR OPENING
MIN. 30" [762] – MAX. 48" [1219]

NOTES
1. DETAILS NOT TO SCALE.
2. ELECTRICAL REQUIREMENTS: BY ELECTRICAL CONTRACTOR
   2.1. 120 VAC, 5 AMP MIN TO OPERATOR.
   2.2. CONTROL CIRCUIT FROM ACTIVATION TO OPERATOR.
3. DOORS, FRAMES, AND HARDWARE BY OTHERS.
4. DOORS MUST BE UN-LATCHED FOR PROPER OPERATION. PROVIDE
   TIME DELAY RELAY WHEN REQUIRED FOR PROPER OPERATION.
5. OPERATOR AND INSTALLATION TO COMPLY WITH ANSI/BHMA A156.19.
6. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

REV: 09/25/2019
M-FORCE™
(NEXT GENERATION MAGIC-FORCE™)

LE OPERATOR, CONCEALED ARM, AL FRAME, LEFT HAND OUT

PROJECT INFORMATION
PROJECT NAME:
LOCATION:
DOOR NUMBER(S):
DATE:
SHEET:

POWER CONTROL

5 1/2" [140] ACCESS COVER

M-FORCE OPERATOR AND HEADER

6" [152] CONCEALING CHANNEL

1 1/2" [38] MIN. RAIL DEPTH

SWING

VERTICAL SECTION

ELEVATION

M-FORCE HEADER

POWER CONTROLS

1

EXTERIOR

INTERIOR PLAN

DOOR OPENING
MIN. 30"[762] – MAX. 48"[1219]

HORIZONTAL SECTION

NOTES
1. DETAILS NOT TO SCALE.
2. ELECTRICAL REQUIREMENTS: BY ELECTRICAL CONTRACTOR
   2.1. 120 VAC, 5 AMP MIN TO OPERATOR.
   2.2. CONTROL CIRCUIT FROM ACTIVATION TO OPERATOR.
3. DOORS, FRAMES, AND HARDWARE BY OTHERS.
4. DOORS MUST BE UN-LATCHED FOR PROPER OPERATION. PROVIDE TIME DELAY RELAY WHEN REQUIRED FOR PROPER OPERATION.
5. OPERATOR AND INSTALLATION TO COMPLY WITH ANSI/BHMA A156.19.
6. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

REVISION: 08/25/2019

PAGE: 4.15.02
M-FORCE™
(NEXT GENERATION MAGIC-FORCE™)

LE OPERATOR, CONCEALED ARM, AL FRAME, PAIR OUT

POWER CONTROLS

M-FORCE HEADER

ACCESS COVER

M-FORCE OPERATOR AND HEADER

TRACK

DOOR ARM

CONCEALING CHANNEL

5 1/2" [140]

1 1/2" [38] MIN RAIL DEPTH

1 VERTICAL SECTION

2 HORIZONTAL SECTION

CONCEALED HEADER CASE ABOVE

DOOR OPENING MIN. 60" [1524] - MAX. 96" [2438]

NOTES
1. DETAILS NOT TO SCALE.
2. ELECTRICAL REQUIREMENTS: BY ELECTRICAL CONTRACTOR
   2.1. 120 VAC, 5 AMP MIN TO OPERATOR.
   2.2. CONTROL CIRCUIT FROM ACTIVATION TO OPERATOR.
3. DOORS, FRAMES, AND HARDWARE BY OTHERS.
4. DOORS MUST BE UN-LATCHED FOR PROPER OPERATION. PROVIDE TIME DELAY RELAY WHEN REQUIRED FOR PROPER OPERATION.
5. OPERATOR AND INSTALLATION TO COMPLY WITH ANSI/BHMA A156.19.
6. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

REVISION: 09/25/2019

PAGE: 4.15.03
M-FORCE™
(NEXT GENERATION MAGIC-FORCE™)

LE OPERATOR, CONCEALED ARM, HM/WD FRAME, RIGHT HAND OUT

PROJECT INFORMATION
PROJECT NAME:  
LOCATION:  
DOOR NUMBER(S):  
DATE:  SHEET: OF

1. VERTICAL SECTION

2. HORIZONTAL SECTION

NOTES
1. DETAILS NOT TO SCALE.
2. ELECTRICAL REQUIREMENTS: BY ELECTRICAL CONTRACTOR
   2.1. 120 VAC, 5 AMP MIN TO OPERATOR.
   2.2. CONTROL CIRCUIT FROM ACTIVATION TO OPERATOR.
3. DOORS, FRAMES, AND HARDWARE BY OTHERS.
4. DOORS MUST BE UN-LATCHED FOR PROPER OPERATION. PROVIDE TIME DELAY RELAY WHEN REQUIRED FOR PROPER OPERATION.
5. OPERATOR AND INSTALLATION TO COMPLY WITH ANSI/BHMA A156.19.
6. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

REVISION: 09/25/2019  PAGE: 4.15.04
LE OPERATOR, CONCEALED ARM, HM/WD FRAME, LEFT HAND OUT

NOTES
1. DETAILS NOT TO SCALE.
2. ELECTRICAL REQUIREMENTS: BY ELECTRICAL CONTRACTOR
   2.1. 120 VAC, 5 AMP MIN TO OPERATOR.
   2.2. CONTROL CIRCUIT FROM ACTIVATION TO OPERATOR.
3. DOORS, FRAMES, AND HARDWARE BY OTHERS.
4. DOORS MUST BE UN-LATCHED FOR PROPER OPERATION. PROVIDE TIME DELAY RELAY WHEN REQUIRED FOR PROPER OPERATION.
5. OPERATOR AND INSTALLATION TO COMPLY WITH ANSI/BHMA A156.19.
6. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
M-FORCE™
(NEXT GENERATION MAGIC-FORCE™)

POWER CONTROLS

ACCESS COVER

M-FORCE OPERATOR AND HEADER

SOLID BLOCKING REQUIRED BY OTHERS

TRACK

1 1/2" [38] [39]

CONCEALING CHANNEL REVEAL, DISTANCE FROM THE FACE OF THE DOOR TO THE REAR OF OPERATOR

3/8" [10][10]

6" [152]

5 1/2" [140]

M-FORCE HEADER

POWER CONTROLS

1

VERTICAL SECTION

2

ELEVATION

INTERIOR PLAN

VISIBEL HEADER CASE ABOVE

DOOR OPENING MIN. 60"[1524] – MAX. 96"[2438]

1 1/2" [38] [38]

NOTES
1. DETAILS NOT TO SCALE.
2. ELECTRICAL REQUIREMENTS: BY ELECTRICAL CONTRACTOR
   2.1. 120 VAC, 5 AMP MIN TO OPERATOR.
   2.2. CONTROL CIRCUIT FROM ACTIVATION TO OPERATOR.
3. DOORS, FRAMES, AND HARDWARE BY OTHERS.
4. DOORS MUST BE UN-LATCHED FOR PROPER OPERATION. PROVIDE TIME DELAY RELAY WHEN REQUIRED FOR PROPER OPERATION.
5. OPERATOR AND INSTALLATION TO COMPLY WITH ANSI/BHMA A156.19.
6. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.