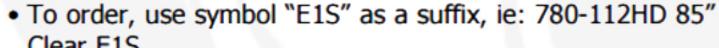
### **ELECTRIC HINGE MODIFICATIONS**

### Concealed Electric Through-Wire and Monitoring:

- To order, use symbol "ETM" plus the number of wires required as a suffix, ie: 780-224LL 85" Bronze ETM - 4
- This combines the continuous electric conductors and the miniature
- switch to provide both power transfer and monitoring
- Four, six, eight or ten continuous electric conductors
- Miniature switch is incorporated into the frame leaf Specify handing and the dimension from the top edge of the
- door to the centerline of each electric modification location Templates regarding location of monitoring switch, available
- upon request



**Exposed Electric Switches** 

- Clear E1S Miniature push button switch is incorporated in the hinge
- frame leaf to monitor position of the door Three 12" wire leads
- Each monitoring hinge only needs one E1S switch

Concealed Leaf

Half Surface

- Specify handing and the dimension from the top edge the
- door to the centerline of the electric switch location Templates regarding location of contact switch available upon request

Concealed Electric Monitoring

- To order, use symbol "EMN", as a suffix, ie: 780-224HD 119" Bronze EMN Miniature switch is incorporated into the frame leaf
- Three 12" wire leads Specify handing and the dimension from the top edge of the
- door to the centerline of electric monitoring location Templates regarding location of monitoring switch available
- upon request

### Hinge leaf cutout to accommodate power transfer device Specify handing and the dimension from the top edge of the

door to the centerline of the power transfer location

Contact Hager Companies Customer Service for charges.

Note: Special Electric Modifications and EPT locations may require additional charges if screw holes have to be moved.

Concealed Electric Through-Wire To order, use symbol "ETW" plus the number of wire leads, 12" per side required as a suffix, ie: 780-112HD

### Transfers power discreetly from building to door

85" Clear ETW - 4

- hardware • 4, 6, 8, 10 or 12 wire continuous electric conductors Specify handing and the dimension from the top edge
- of the door to the centerline of electric through-wire location · Templates regarding location of through-wires available
- upon request
- Transfers power discreetly from building to door

Removable Electric Through-Wire

hardware • 4" removable 10 or 12 wire ETW module can easily be removed for adjustment or service

• To order, use symbol "RETW", ie: 780-112HD 85" Clear

- Available on these heavy duty models only: 780-111HD, 780-112HD, 780-124HD, 780-224HD, 780-226HD · Specify handing and the dimension from the top edge of
- the door to the centerline of electric monitoring location • Templates regarding location of module available upon
- request
- Mortar Box 430
- Overall dimensions: 9" (229 mm) length with tabs, 7" (178 mm) inside, 1-3/4" x 1-3/4" (45 mm x 45 mm)

### inside dimension

Galvanized steel 0.040" (1 mm)

Serves as a mortar shield

- Top and bottom knockouts for standard conduit fittings
- **Exposed Electric Contacts** To order, use symbol "E" plus the number of contacts

required as a suffix, ie: 780-112HD 85" Clear E4

Transfers power to door in closed position

- Must have at least two contacts to transfer power Specify handing and the dimension from the top edge of
- the door to the centerline of the electric contact location Templates regarding location of contacts available upon
- request
- **Quick Connect** Available for ETM, ETW, and RETW options. Top and bottom knockouts for standard conduit fittings.

## Specify handing and the dimension from the top edge of the door to the centerline of the electric monitoring location.

Concealed Electric Monitoring (EMN)

 Special Electric Modifications and EPT locations may require additional charges if screw holes have to be moved. Templates regarding location of monitoring switch available upon request.

Miniature switch is incorporated into the frame leaf.

- Concealed Electric Through-Wire and Monitoring (ETM) Electric Preparation
- ETM-4
- ETM-6 ETM-8

### ETM-10 All ETM have 28-gauge continuous conductors.

- This combines the continuous electric conductors and the miniature switch to provide both power transfer and monitoring.
- Miniature switch is incorporated into the frame leaf. Specify handing and the dimension from the top edge of the door to the centerline of each electric modification location. Templates regarding location of monitoring switch available upon request.
- Concealed Electric Through-Wire (ETW)
- Electric Preparation ETW-4 ETW-6

# All ETW have 28-gauge continuous conductors.

- 12" per side required as a suffix.
- Cut out for prep 1/2" drilled hole. Transfers power discreetly from building to door hardware.

ETW-8

ETW-10

ETW-12

 Specify handing and the dimension from the top edge of the the door to the centerline of the electric through-wire location. · Special electric modifications and EPT locations may require additional charges if screw holes have to moved. Contact Hager Customer Service for charges.

A = Opening

B = Door height

C = Actual hinge length

D = C.L. of EMN (electric monitor)

F = C.L. of <u>ETW</u> (electric through-wires)

- Templates regarding location of through-wires available upon request.

E = C.L. of ETM (electric through-wires & monitor)

NOTE: These locations are for concealed hinges only.

Opening

80"

80"

84"

84"

86"

120"

79 SD

79 HD

83 SD

83 HD

85 SD

119 HD

SD - Standard Duty

Door

Height

79-1/8"

79-1/8"

83-1/8"

83-1/8"

85-1/8"

119-1/8"

Actual Hinge

Length

79"

79"

83"

83"

N/A

119"

HD = Heavy Duty

EMN

40-3/4"

43-3/8"

45-5/16"

45-3/8"

N/A

81-1/4"

or K

G = C.L. of EPT (electric power transfer) ETW, RETW H = C.L. of <u>E1S</u> (exposed switch) ETM J = C.L. of E (exposed contact) EMN, E1S, E **K** = C.L. of <u>RETW</u> (removable electric through-wires) FINISHED FLOOR 3/4" UNDERCUT -(typ.) For ease of ordering, Hager Companies has established standard locations for power transfer cutouts. All standard location dimensions are referenced from the top edge of the door to the centerline of the power transfer cutout. Please specify handing.

FΓΜ

42-3/4"

42-3/4"

44-3/4"

44-3/4"

N/A

81-5/16"

ETW

40-3/4"

40-3/4"

45-5/16"

45-5/16"

N/A

81-1/4"

34-3/8"

34-3/8"

36-3/8"

36-3/8"

N/A

72-5/16"

42-1/2"

42-1/2"

46-1/2"

46-1/2"

N/A

83-3/4"

42-1/2"

42-1/2"

46-1/2"

46-1/2"

N/A

83-3/4"

43-3/8"

45-3/8"

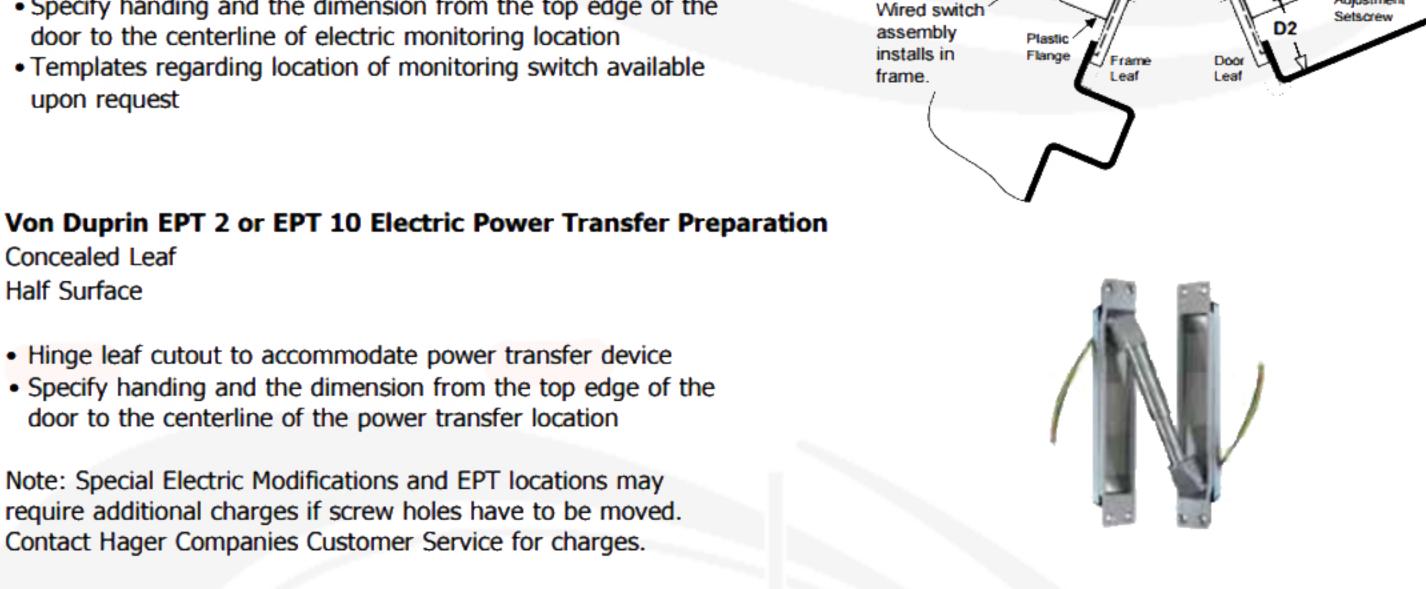
N/A

81-5/16"

46-5/16" 85" 45-3/4" 48-1/2" 86" 85-1/8" 46-3/8" 37-3/8" 48-1/2" 46-3/8" 85 HD 96" 95-1/8" 95" 56-3/8" 55-13/16" 56-3/8" 59-3/4" 59-3/4" 47-1/2" 95 SD 96" 95" 56-3/8" 59-3/4" 95-1/8" 56-1/2" 55-13/16" 47-1/2" 59-3/4" 56-1/2" 95 HD 120" 119-1/8" N/A N/A N/A N/A N/A N/A N/A N/A 119 SD

Electric Through-Wire Electric Through-Wire oncealed Electric Through-Wire Electric Monitoring 2 or EPI TO Preparation Electric Switches Exposed Electric Contacts and Monitoring Transfer EPT Duprin Exposed Concealed emovable oncealed Von Du Power

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Part Number	EPT	Е	E1S	ETW	EMN	ETM	RETW
780-045HD	•						
780-046HD	•						
780-053	•						
780-053HD	•						
780-054HD	•						
780-057				•			•
780-110HD			•				
780-111	•	•	•	•	•		
780-111HD	•	•	•	•	•	•	•
780-111LL	•	•	•	•	•	• \	
780-112	•	•	•	•	•	•	
780-112HD	•	•	•	•	•	•	•
780-112LL	•	•	•	•	•	•	
780-124HD	•	•	•	•	•	•	•
780-124LL	•	•	•	•	•	•	
780-157				•			•
780-224	•	•	•	•	•	•	
780-224HD	•	•	•	•	•	•	•
780-224LL	•	•	•	•	•	•	
780-226HD	•	•	•	•	•	•	•
780-226LL	•	•	•	•	•	•	
780-235HD				•			
1200-600	•			•			
1200-650	•			•			



Frame

ETW image shown

EMN image shown below

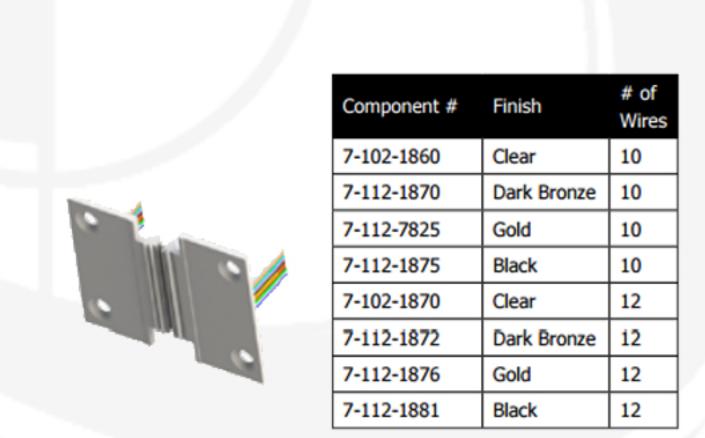
Magnet

assembly

installs in

Adjustment

door.



Grey

Blue Brown

Orange

White w/Grey White w/Red

White w/Violet Vhite w/Yellow



1/8\*

CLEARANCE

(Hager Recommended) -

To be purchased from Industrial Hardware & Specialties, Inc.