

DORMA EML310EW early warning electromagnetic locks detect attempted forced entry through a locked door.

When an intruder attempts to gain access into a building, the EML310EW's built-in sensor activates a local and/or remote alarm prior to the integrity of the door being compromised — well before the break-in has occurred.

An alarm in the immediate location will ward off would be thieves before they have a chance to gain access. The light panel provides highly visible information related to the status changes of the door. For example, it works as a status indicator when the door is secure or notifies if an attempted break-in has occurred.



EML310EW Single Outswinging Perimeter Doors

DORMA Solutions

- Built-in sensor with local and/or remote alarm activation
- Highly visible Red/Green status indicator (local) light panel
- Built-in Bond Alert Sensor (BA) feature
- Dry contact relay switching (SPDT and DPDT) for local and/or remote alarm monitoring
- Autosensing voltage from 12 to 24 VDC
- Up to 1200 lb (540 kg) holding force
- Low voltage detection
- Nuisance delay feature to accommodate accidental triggering
- MOV surge protection
- 628 Brushed Anodized Aluminum lock body finish

Listings & Approvals

- UL/CUL listed under their continuing reinspection programs and conforms to standards UL 10C, GWXT, and FWAX positive pressure fire testing, 3 hour fire rated pending
- ANSI/BHMA 156.23, Grade 1 pending
- CSFM pending
- Contributes to U.S. Green Building Council, LEED[®] MR Credits 2.1 4.1, 4.2, and 5.1

Optional Mounting Accessories

- Spacers
- Angle brackets
- L brackets
- Filler bars
- Power supply
- Key switch
- External sounder

Specifications	EML310EW					
Housing Dimensions	2-1/8" D × 2-7/8" H × 10-13/16" L (54 mm × 73 mm x 275 mm)					
Armature Plate Dimensions	5/8" D × 2-3/8" H × 7-7/16" L (16 mm × 60 mm × 189 mm)					
Voltage	Autosensing voltage 12 to 24 VDC Tolerance ±10%					
Power/Current Requirements	Max 0.58 A @ 12 VDC Max 0.29 A @ 24 VDC					
Holding Force	Up to 1200 lb (540kg) lb					
Operating Temperature	Circuit board operating temperature 14° F to 140° F (–10° C to 60° C)					

NOTE: DORMA recommends frame reinforcement and our filtered, regulated DC voltage PS500 Series power supplies.

Function	Function Descriptions This feature is designed to reduce accidental triggering. A pull to the door with a minimum of 55 lb of force changes the light panel from green to red and triggers the local alarm relay. If the pressure is withdrawn within 4 seconds, the system will return to normal. If pressure on the door is maintained for more than 4 seconds, the remote alarm relay will activate, the local alarm relay remains on and the light panel continues to flash red. After 30 seconds, the local and remote alarm relay will return to normal, but the light panel will continue to blink indicating an attempted break-in has occurred until reset.						
Nuisance Delay							
30 Second Alarm Period							
Light Panel	This full length feature is a highly visible red and green status indicator.						
Supplementary Sounder	An external alarm device may be connected to pulse during the 4 second nuisance delay and sound steady during the 30 second remote alarm period.						

NOTE: All installations must be approved by the Local Authority Having Jurisdiction (AHJ)



How to Order EML310EW Series

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				Mountir	Ŭ					
				CMB10	— Cond	uit Mounting Bracl	ket			
				TJ10	— Top J	amb Bracket				
				LB20	— 2-1/2	$2"H \times 2"W \times 21"L$				
				AB22	— 1-1/2	$2"H \times 1-1/2"W \times 2$	1"L			
				AB21	— 1-1/2	$2"H \times 1"W \times 21"L$				
				AB20	— 1"H >	< 1"W × 21"L				
				AB13	— 1-1/2	$M \times 1-1/4$ W $\times 10^{-1}$)-1/2"L	Glass Do	or Brackets	
	Model Fin	ish		AB12	— 1-1/2	2"H × 1"W × 10-1/2	2"L	GDB16	— 3/4"	
Single Door w/ Early Warning Sensor, 1200 lb	310EW 62	28 — Clear Anodiz Aluminum	zed	AB11	— 1"H >	× 1"W × 10-1/2"L		GDB14	— 1/2"	
				ľ						
EML 3	<u>310EW 62</u>	28								
EML	1/8"H × 3/4"W × 10-1	/2"L— FB11		EML31	.0EW —	APH10	2-1/4	"-2-3/4" Doo	rs — AMB225	
Electromagnetic	1/4"H $ imes$ 3/4"W $ imes$ 10-1	/2"L - FB12	1,	Armature	Disto		1-3/4	"-2-1/4" Doo	rs — AMB275	
Locks Series	$1/2$ "H \times 5/8"W \times 10-1	/2"L - FB14N	1 1	Annature	Tate	riolael3		-3/4"-3" Doo		
361165	$1/2$ "H \times $3/4$ "W \times 10-1	/2"L— FB14	1				2			
	5/8"H × 3/4"W × 10-1	/2"L - FB15	1					Ar	mature Bolts	
	1/4"H × 3/4"W × 2	21"L— FB22	1							
	$1/2$ "H \times 5/8"W \times 2	21"L — FB24N								
	1/2"H × 3/4"W × 2	21"L— FB24								
	5/8"H × 3/4"W × 2		1							
	1/2"H × 3/4"W ×		1							
	5/8"H × 3/4"W ×									
	1/2"H × 1-1/2"W × 2	10/13	1							
	5/8"H × 1-1/2"W × 2	00024	-							
			1							
Fillers/Spacers ¹										

1. Specify 628 or 695 finish, except FB11/LB20/CMB10 available in 628 only.

DORMA also offers a complete line of Electromagnetic Locks, Electric Strikes, Door Controls, Power Supplies, Switches, Keypads & Readers, Exit Devices, Systems & Door Hardware.

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