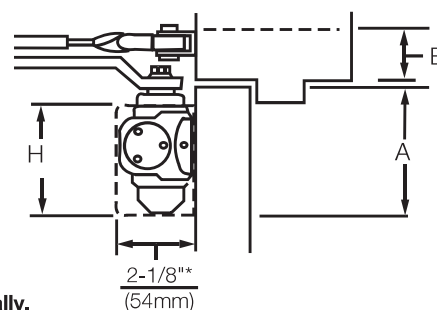
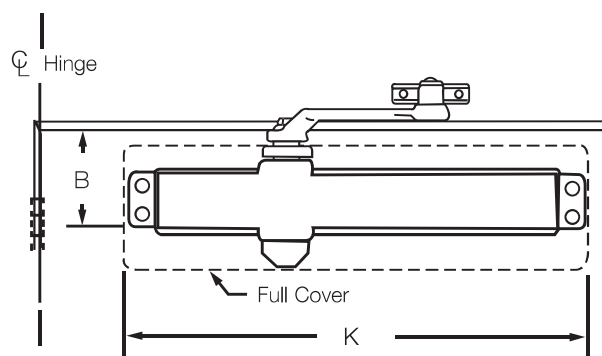


Technical Details

REGULAR ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.

Note: All measurements are Inches/mm.

Maximum 180° door swing, conditions permitting

Closer Series	Covers	E Minimum Ceiling Clearance			B Minimum Top Rail				A Minimum Top Rail Clearance		K Closer Length	H Closer Height
		NHO	Low Profile	HO	W/O Drop Plate		W/3146 Drop Plate		NHO/ HO	Low Profile		
					NHO/ HO	Low Profile	NHO/ HO	Low Profile				
3100	No Cover	1-1/2" (38)	1" (25)	1-5/8" (41)	2-1/2" (64)	2-3/8" (60)	1-5/8" (41)	1-1/2" (38)	3-1/2" (89)	3-3/8" (86)	12-3/4" (324)	2-7/8" (73)
3300	Slim Line Plastic										13" (330)	
3500	Full Plastic											
3500M	Metal								4-1/4" (108)	4-1/8" (105)	13-5/8" (346)	3-3/4" (95)
3500A	Arch. Plastic								3-5/8" (92)	3-1/2" (89)	14" (356)	3-1/8" (79)
3500MA	Arch. Metal								3-1/2" (89)	3-3/8" (86)		3" (76)

Door Widths Inches (cm)		Model Numbers	
Interior	Exterior	Non-Hold Open	Hold Open
30" (76)	N/A		
36" (91)	30" (76)		
48" (122)	36" (91)	3301 3501	3311 3511
N/A	48" (122)		
Unusual			

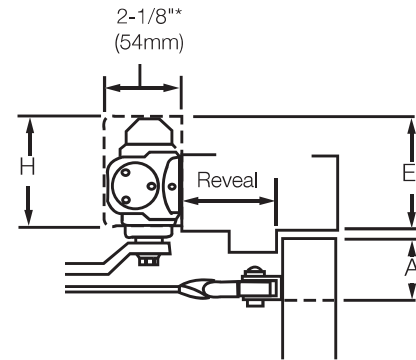
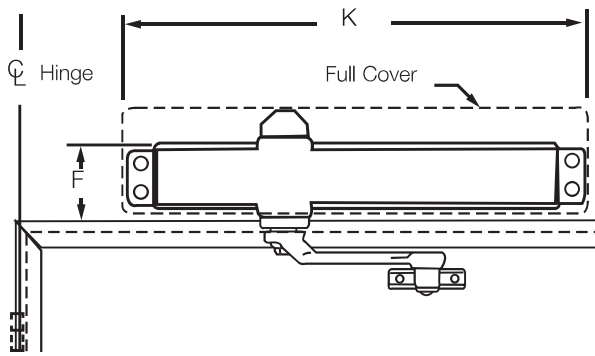
Note: 3301/3501 series door closers are set at midpower range from the factory and can be adjusted for door sizes noted above.

* Projection is for Slim Line or Full Covers. Projection for Metal Covers = 2-3/16" (56mm). Projection for Architectural Plastic & Architectural Metal Covers = 2-1/4" (57mm).



Technical Details

TOP JAMB ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.
Note: All measurements are Inches/mm.

Closer Series	Covers	F Minimum Frame Face			E Minimum Ceiling Clearance			A Minimum Top Rail Clearance									K Closer Length	H Closer Height
								W/O Drop Plate			W/3146 Drop Plate			With 3148/3547 Drop Plate				
		W/O Drop Plate	With 3146 Drop Plate	With 3148, 3158, 3547 & 3547A Drop Plates	W/O Drop Plate	With 3146 Drop Plate	With 3148, 3158, 3547 & 3547A Drop Plates	NHO	Low Profile	HO	NHO	Low Profile	HO	NHO	Low Profile	HO		
3100	No Cover																12-3/4" (324)	
3300	Slim Line Plastic		1-1/8" (29)	1-1/2" (38)	2-3/4" (70)	1-5/8" (41)	1-1/2" (38)										13" (330)	2-7/8" (73)
3500	Full Plastic	1-3/4" (44)						2-1/4" (57)	N/A	2-1/2" (64)	3-3/8" (86)	2-3/4" (70)	3-5/8" (92)	4-3/8" (111)	3-3/4" (95)	4-5/8" (117)		
3500M	Metal			1-5/8" (41)	3-3/4" (95)		1-5/8" (41)										13-5/8" (346)	3-3/4" (95)
3500A	Arch. Plastic		N/A	1-1/2" (38)	3" (76)	N/A	1-1/2" (38)										14" (356)	3-1/8" (79)
3500MA	Arch. Metal				2-7/8" (73)													3" (76)

Note: Reveal range information is based upon 1-3/4" (44mm) doors hung on 4-1/2" wide hinges.

* Projection is for Slim Line or Full Covers. Projection for Metal Covers = 2-3/16" (56mm). Projection for Architectural Plastic & Architectural Metal Covers = 2-1/4" (57mm).



Technical Details

TOP JAMB ARM

Door Widths Inches (cm)		Model Number	
Interior	Exterior	Non-Hold Open	Hold Open
30" (76)	N/A		
36" (91)	30" (76)		
48" (122)	36" (91)	3301 3501	3311 3511
N/A	48" (122)		
Unusual			

Note: 3301/3501 series door closers are set at midpower range from the factory and can be adjusted for door sizes noted above.

Reveal Information		
Reveal Range Inches (mm)	Maximum Door Opening	
	NHO	Hold Open
2-3/4" (70) to 4-1/4" (108)	180°	—
4-1/4" (108) to 7" (178)	150°	—
2-1/8" (54) to 4-1/4" (108)	—	180°
4-1/4" (108) to 6-3/4" (171)	—	150°

Reveal Information (regular arm installed top jamb)		
Reveal Range Inches (mm)	Maximum Door Opening	
	NHO	Hold Open
0 to 2-7/8" (73)	180°	—
0 to 2-3/4" (70)	180°	—
0 to 2-3/4" (70)	—	180°

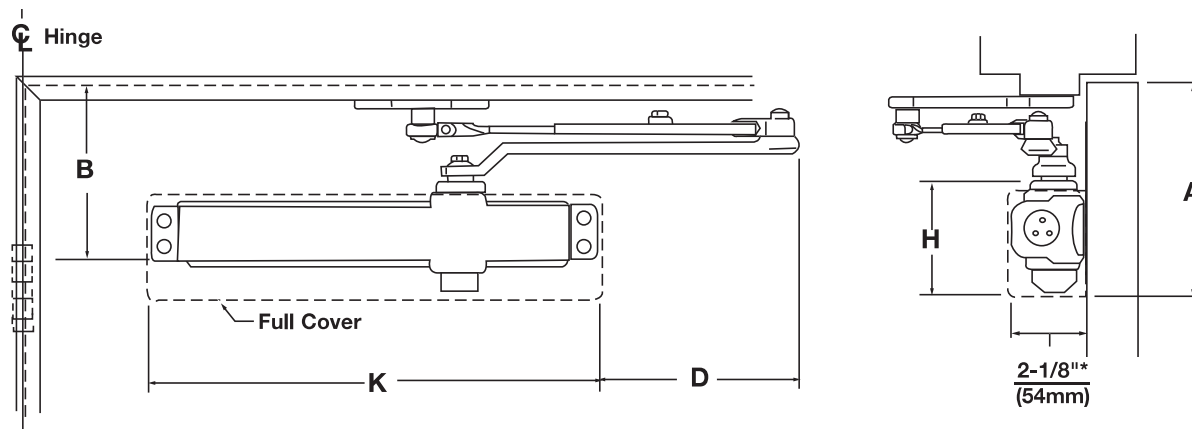
**** Drop Plate 3146, 3148, 3158, 3547 or 3547A**

Note: Reveal range information is based upon 1-3/4" (44mm) doors hung on 4-1/2" wide hinges.



Technical Details

PARALLEL ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.

Note: All measurements are Inches/mm.

Maximum 180° door swing, conditions permitting.

Closer Series	Covers	B Minimum Top Rail 5/8" (16mm) Frame Stop						A Top Rail Clearance			K Closer Length	H Closer Height	D Arm Extension
		W/O Drop Plate			With 3148/3548 Drop Plate								
		NHO	Low Profile	HO	NHO	Low Profile	HO	NHO	Low Profile	HO			
3100	No Cover										<u>12-3/4"</u> (324)		<u>8-1/8"</u> (206)
3300	Slim Line Plastic							<u>6-1/4"</u> (159)	<u>5-5/8"</u> (143)	<u>6-1/4"</u> (159)	<u>13"</u> (330)	<u>2-7/8"</u> (73)	<u>8"</u> (203)
3500	Full Plastic	<u>5-1/4"</u> (133)	<u>4-5/8"</u> (117)	<u>5-1/4"</u> (133)	<u>3"</u> (76)	<u>2-3/8"</u> (60)	<u>3"</u> (76)						
3500M	Metal							<u>6-7/8"</u> (175)	<u>6-1/4"</u> (159)	<u>6-7/8"</u> (175)	<u>13-5/8"</u> (346)	<u>3-3/4"</u> (95)	
3500A	Arch. Plastic							<u>6"</u> (152)	<u>5-3/8"</u> (137)	<u>6"</u> (152)	<u>14"</u> (356)	<u>3-1/8"</u> (79)	<u>7-5/8"</u> (194)
3500MA	Arch. Metal							<u>5-7/8"</u> (149)	<u>5-1/4"</u> (133)	<u>5-7/8"</u> (149)		<u>3"</u> (76)	

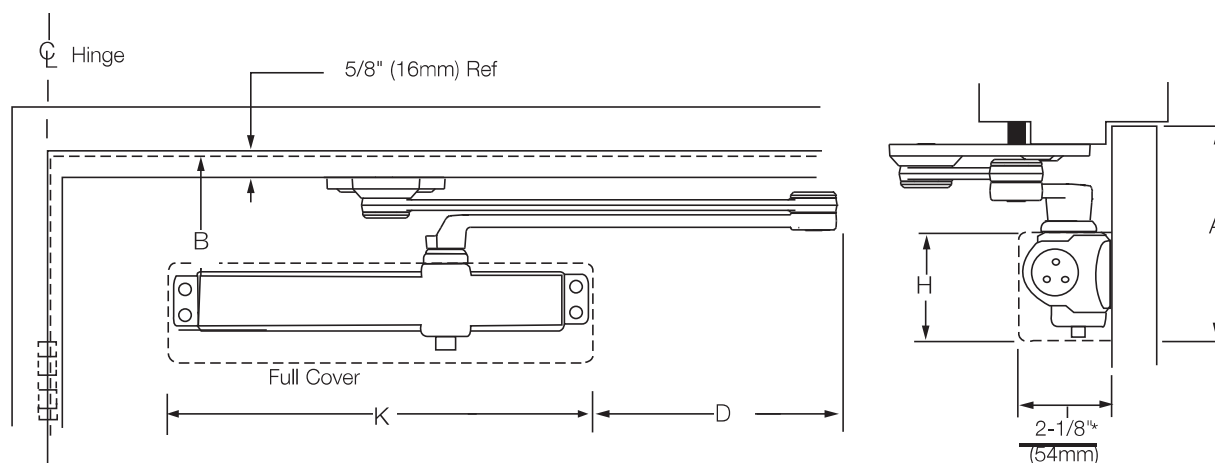
Door Widths Inches (cm)		Model Number	
Interior	Exterior	Non-Hold Open	Hold Open
30" (76)	N/A		
36" (91)	30" (76)		
42" (107)	36" (91)	3301 3501	3311 3511
48" (122)	42" (107)		
N/A	48" (122)		

Note: 3301/3501 series door closers are set at midpower range from the factory and can be adjusted for door sizes noted above.

* Projection is for Slim Line or Full Covers. Projection for Metal Covers = 2-3/16" (56mm). Projection for Architectural Plastic & Architectural Metal Covers = 2-1/4" (57mm).

Technical Details

PARALLEL RIGID ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.
Note: All measurements are Inches/mm.

Closer Series	Covers	B		A	K	H	D
		Minimum Top Rail W/O Drop Plate	Minimum Top Rail With Drop Plate	Minimum Top Rail Clearance			
3100	No Cover				12-3/4" (324)		
3300	Slim Line Plastic			5-7/8" (149)	13" (330)	2-7/8" (73)	8" (203)
3500	Full Plastic	4-5/8" (117)	2-3/8" (60)				
3500M	Metal			6-1/2" (165)	13-5/8" (346)	3-7/8" (98)	7-5/8" (194)
3500A	Arch. Plastic			6" (152)	14" (356)	3-1/8" (79)	7-1/2" (191)
3500MA	Arch. Metal			5-7/8" (149)		3" (76)	

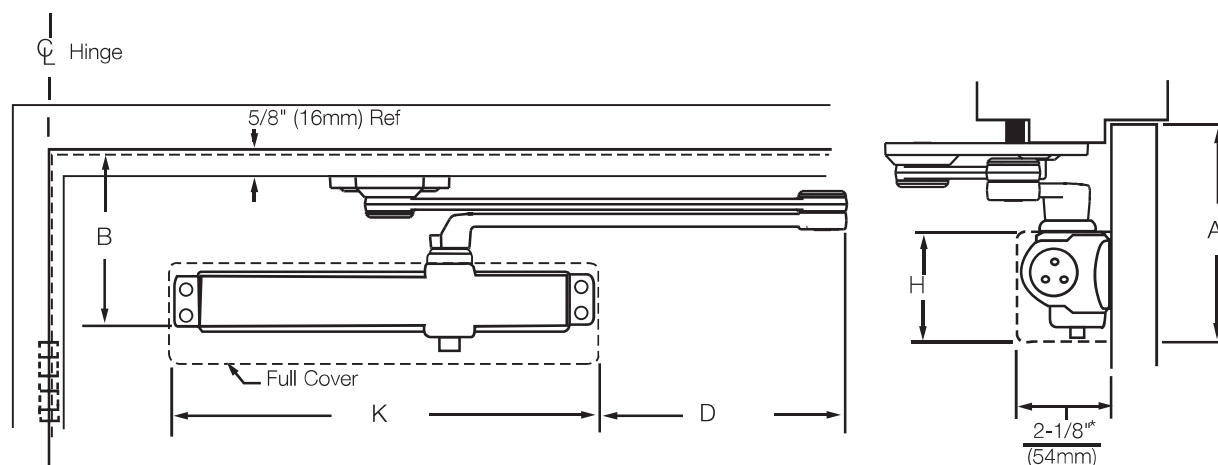
Door Size (Wood or Metal) Inches (cm)		Model Number	
Interior	Exterior	Stop Only	Hold Open
28" (71) - 32" (81)	N/A		
33" (84) - 36" (91)	28" (71) - 32" (81)		
37" (94) - 41" (104)	33" (84) - 36" (91)	PR3301 PR3501	PR3311 PR3511
42" (107) - 48" (122)	37" (94) - 41" (104)		
N/A	42" (107) - 48" (122)		

Note: 3301/3501 series door closers are set at midpower range from the factory and can be adjusted for door sizes noted above.
* Projection is for Slim Line or Full Covers. Projection for Metal Covers = 2-3/16" (56mm). Projection for Architectural Plastic & Architectural Metal Covers = 2-1/4" (57mm).



Technical Details

HOLDER/STOP ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.
Note: All measurements are Inches/mm.

Closer Series	Covers	B Minimum Top Rail		A Minimum Top Rail Clearance	K Closer Length	H Closer Height	D Arm Extensions
		W/O Drop Plate	With Drop Plate				
3100	No Cover				12-3/4" (324)		
3300	Slim Line Plastic			5-7/8" (149)	13" (330)	2-7/8" (73)	8" (203)
3500	Full Plastic	4-5/8" (117)	2-3/8" (60)				
3500M	Metal			6-1/2" (165)	13-5/8" (346)	3-7/8" (98)	7-5/8" (194)
3500A	Arch. Plastic			6" (152)	14" (356)	3-1/8" (79)	7-1/2" (191)
3500MA	Arch. Metal			5-7/8" (149)		3" (76)	

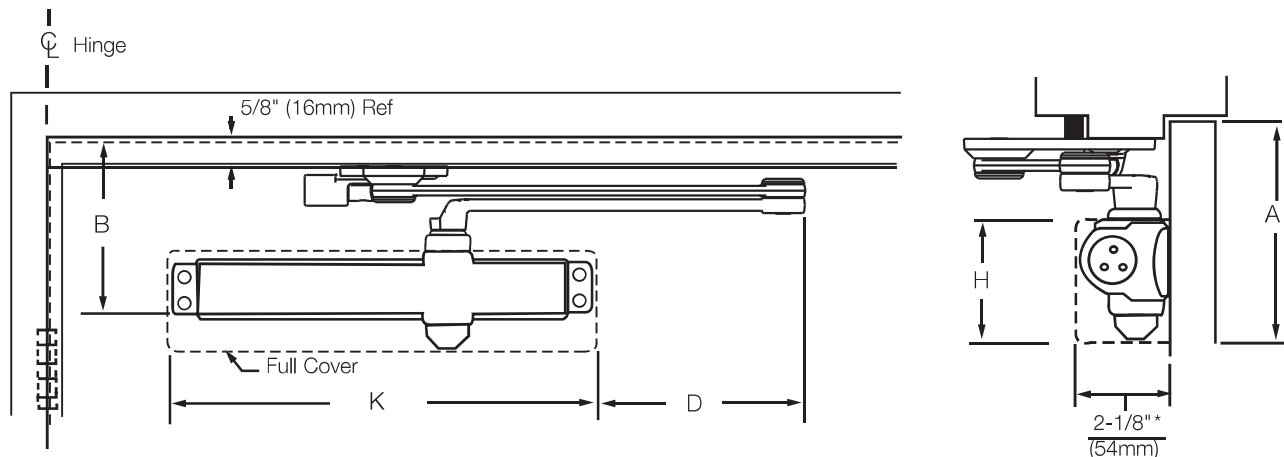
Door Size (Wood or Metal) Inches (cm)		Model Number	
Interior	Exterior	Stop Only	Hold Open
28" (71) - 32" (81)	N/A		
33" (84) - 36" (91)	28" (71) - 32" (81)	3321	3321T 3521T
37" (94) - 41" (104)	33" (84) - 36" (91)		
42" (107) - 48" (122)	37" (94) - 41" (104)	3521	
N/A	42" (107) - 48" (122)		

Note: 3301/3501 series door closers are set at midpower range from the factory and can be adjusted for door sizes noted above.
* Projection is for Slim Line or Full Covers. Projection for Metal Covers = 2-3/16" (56mm). Projection for Architectural Plastic & Architectural Metal Covers = 2-1/4" (57mm).



Technical Details

HOLDER/STOP SPRING ARMS



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.
Note: All measurements are Inches/mm.

Closer Series	Covers	B		A	K	H	D
		Minimum Top Rail	Minimum Top Rail				
		W/O Drop Plate	With Drop Plate	Clearance	Closer Length	Closer Height	Arm Extensions
3100	No Cover				12-3/4" (324)		
3300	Slim Line Plastic			5-7/8" (149)	13" (330)	2-7/8" (73)	8" (203)
3500	Full Plastic	4-5/8" (117)	2-3/8" (60)				
3500M	Metal			6-1/2" (165)	13-5/8" (346)	3-7/8" (98)	7-5/8" (194)
3500A	Arch. Plastic			6" (152)	14" (356)	3-1/8" (79)	7-1/2" (191)
3500MA	Arch. Metal			5-7/8" (149)		3" (76)	

Door Size (Wood or Metal)		Model Number	
Interior	Exterior	Stop Only	Hold Open
28" (71) - 32" (81)	N/A		
33" (84) - 36" (91)	28" (71) - 32" (81)		
37" (94) - 41" (104)	33" (84) - 36" (91)	3331 3531	3331T 3531T
42" (107) - 48" (122)	37" (94) - 41" (104)		
N/A	42" (107) - 48" (122)		

Note: 3301/3501 series door closers are set at midpower range from the factory and can be adjusted for door sizes noted above.

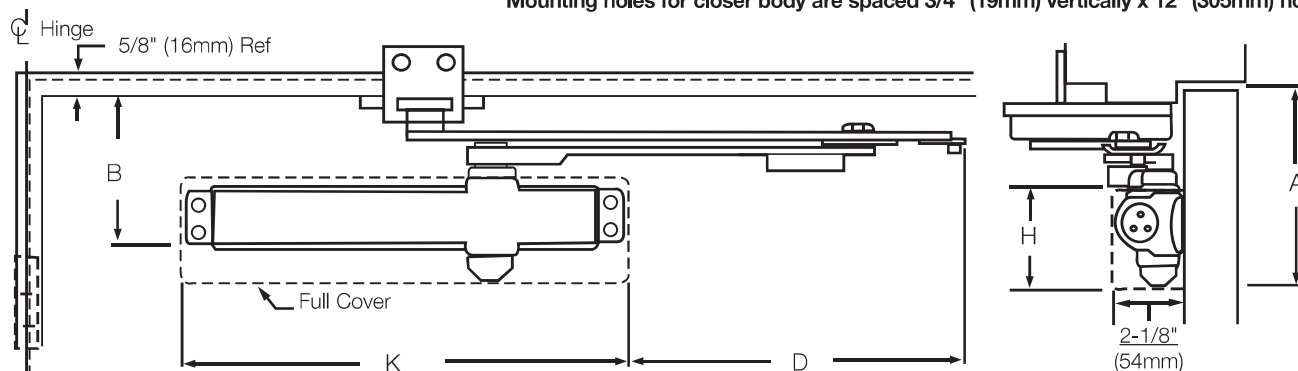
* Projection is for Slim Line or Full Covers. Projection for Metal Covers = 2-3/16" (56mm). Projection for Architectural Plastic & Architectural Metal Covers = 2-1/4" (57mm).



Technical Details

UNI STOP™ - PARALLEL ARM

Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.

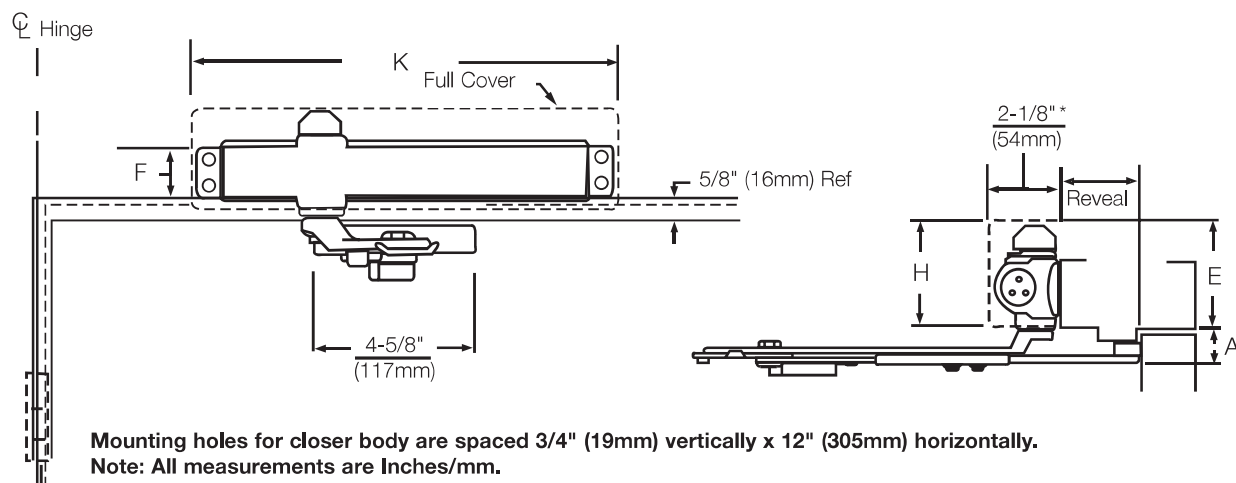


Closer Series	Door Width	Covers	B Minimum Top Rail		A Minimum Top Rail Clearance	K Closer Length	H Closer Height	D Arm Extensions
			W/O Drop Plate	With Drop Plate				
3300	28-32	Slim Line Plastic	4-3/4" (121)	2-1/2" (64)	5-3/4" (146)	13" (330)	2-7/8" (73)	8-3/8" (213)
	33-41							9-7/8" (251)
	42-48							11-1/4" (286)
3500	28-32	Full Plastic			6-3/8" (162)	13-5/8" (346)	3-7/8" (98)	8-3/8" (213)
3500M		Metal						8" (203)
3500A		Arch. Plastic						7-7/8" (200)
3500MA		Arch. Metal						7-1/2" (191)
3500		Full Plastic						9-7/8" (251)
3500M	33-41	Metal						9-1/2" (241)
3500A		Arch. Plastic						9-3/8" (238)
3500MA		Arch. Metal						9" (229)
3500		Full Plastic						11-1/4" (286)
3500M	42-48	Metal						10-7/8" (276)
3500A		Arch. Plastic						10-3/4" (273)
3500MA		Arch. Metal						10-3/8" (264)
3500		Full Plastic						

Door Widths (Wood or Metal) Inches (cm)		Model Number		x Specify Door Width
Interior	Exterior	Stop Only	Hold Open	
28" (71) - 32" (81)	N/A	UNI3301 UNI3501	UNI3311 UNI3511	
33" (83) - 36" (91)	28" (71) - 32" (81)			
37" (94) - 41" (104)	33" (83) - 36" (91)			
42" (107) - 48" (122)	37" (94) - 41" (104)			
N/A	42" (107) - 48" (122)			

Technical Details

UNI STOP™ - TOP JAMB ARM



Closer Series	Covers	F Minimum Frame Face		E Minimum Ceiling Clearance		A Minimum Top Rail Clearance		K Closer Length	H Closer Height
		W/O Drop Plate	With 3148, 3158, 3547 & 3547A Drop Plates	W/O Drop Plate	With Drop Plate	W/O Drop Plate	With 3148, 3158, 3547 & 3547A Drop Plates		
3300	Slim Line Plastic		1-1/2" (38)	2-3/4" (70)	1-1/2" (38)			13" (330)	2-7/8" (73)
3500	Full Plastic								
3500M	Metal	1-3/4" (44)	1-5/8" (41)	3-3/4" (95)	1-5/8" (41)	1-7/8" (48)	3-3/4" (95)	13-5/8" (346)	3-7/8" (98)
3500A	Arch. Plastic		1-1/2" (38)	3" (76)	1-1/2" (38)			14" (356)	3-1/8" (79)
3500MA	Arch. Metal			2-7/8" (73)					

Door Widths (Wood or Metal) Inches (cm)		Model Number		x Specify Frame Reveal
Interior	Exterior	Stop Only	Hold Open	
28" (71) - 30" (76)	N/A			
31" (79) - 36" (91)	28" (71) - 30" (76)			
37" (94) - 42" (107)	31" (79) - 36" (91)	UNI3301 UNI3501	UNI3311 UNI3511	
43" (109) - 48" (122)	37" (94) - 42" (107)			
N/A	43" (109) - 48" (122)			

Note: 3301/3501 series door closers are set at midpower range from the factory and can be adjusted for door sizes noted above.

*** Projection is for Slim Line or Full Covers. Projection for Metal Covers = 2-3/16" (56mm). Projection for Architectural Plastic & Architectural Metal Covers = 2-1/4" (57mm).**