Swinging Door

Electrified Option

Dual Force® 2190, 2290 Series Interconnected Deadbolt/Deadlatch



The 2190 Series Interconnected Deadbolt/Deadlatch provides access control and security for narrow stile aluminum **(2190)**, hollow metal and wood doors **(2290)**. Deadlatch and deadbolt capabilities are combined for fast, easy, and panic-proof exiting.

Function

The Dual Force combines the access control capabilities of a latch with the security of a deadbolt. The key retracts and extends the deadbolt and deadlatch from either side. The exterior lever retracts the latch only. With the deadbolt projected, a simple turn of the inside lever retracts both the latch and deadbolt simultaneously, providing single-motion, panic-proof exiting. The Dual Force is available with electrified trim set for easy integration into an existing access control system. Standard and electrified trim sets are for out-swinging doors only; low profile trim set designed for in-swinging doors only.

Operation

Key or thumbturn projects or retracts deadbolt or deadlatch. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder, available separately. Lock accepts cylinder from either or both sides.

Inside lever retracts both deadbolt and deadlatch when configured with interconnect feature. Outside lever retracts latch only. Latch holdback feature activated or deactivated by turning key to retract latch. Sliding holdback button on faceplate down will holdback latch and sliding up will release. The 2190 Series Interconnected Deadbolt/Deadlatch are designed to operate with the uniquely designed strike plate that comes standard in the package from the factory.

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Canada assaabloydss.ca | 800.461.3007 | sales.dss.ca@assaabloy.com

Updated: January 28, 2021

Features

Cylinder Backset
1-1/8" [28.6 mm] or 1-1/2" [38.1 mm] only.

Bolt
Latchbolt: 5/8" [15.9 mm] throw of solid brass. Easily reversible using only a screwdriver.
Deadbolt: 1" [25.4mm] throw of stainless steel.

Auxiliary Deadlatch Pin
Stainless steel. Deadlocks latchbolt to prevent "loiding" or case-knife entry.

Faceplate
Includes faceplate system that adapts to flat, radius, or beveled door edge.

2190: Measures 1" x 6-7/8" [25.4 mm x 174.6 mm]. Radius with weatherseal faceplate available separately.

2290: Measures 1-1/4" x 8" [31.8 mm x 203.2 mm].

Strike
The Dual Force 2190, 2290 Interconnected Deadbolt/Deadlatch will not operate without its specially designed strike, included standard in package.

2190: Standard strike furnished is the 2101-01 Strike for flat jamb where door closes flush or nearly flush. The 2101 Strike covers MS® Deadlock strike preparation with modification, and the 4901 Deadlatch Strike directly. Also available in radius version for opposite stile pairs of doors and with extended lip strikes for special jamb conditions.

2290: Standard strike furnished is the 2206 (ASA) Strike for flat jamb where door closes flush or nearly flush.

Inter Connection
Field-selectable inter-connection feature allows interior trim to retract deadbolt and deadlatch. Consult local authority having jurisdiction (AHJ) for guidance in code compliance. 1-3/4" [44.5 mm] minimum door thickness required.

- 2190 retrofits to existing MS1850S Deadlock or 4500 and 4900 Deadlatch of the same backset.

Standard Package
Individually boxed with trim as specified, strike and machine screws for mounting. Cylinder available separately.

Shipping Weight
9 lbs [4.08 kg].

Electrical

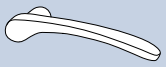
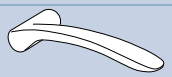
Electrified Trim Options
Electrified trim set is designed for easy integration into an existing access control system. Dual-voltage 12/24 VDC rated for continuous duty operation. Energizing the trim set allows the exterior lever to be turned to retract the latch only.

The electrified option is not available for low profile trim (trim option 3). Dual Force 2190/2290 Electrification Kit EK-2190 available separately for field-installation into the exterior standard trim set.

Options

- Specify trim option, lever style, finish, and strike.
- Thick Door Kits (2190-TDKXX) available separately. Specify door thickness.
- Request to Exit REX-4600 switch available separately for small format low profile trim set.
- Available in choice of US3 (605) Bright brass, US4 (606) Satin brass, 10B powder coat to match dark bronze, US32 (629) Bright stainless, or US32D (630) Satin stainless.

Options & Accessories

	OPTION	DESCRIPTION I SHORT
	**Standard Series 01**	Standard lever, curved
	**Standard Series 02**	Standard lever, round
	**Standard Series 03**	Standard lever, square
	**Aventura Series ME**	Studio Collection designer lever
	**Aventura Series MG**	Studio Collection designer lever
	**Aventura Series MI**	Studio Collection designer lever
	**Aventura Series MW**	Studio Collection designer lever
	**Centro Series MD**	Studio Collection designer lever
	**Centro Series MJ**	Studio Collection designer lever
	**Odeon Series MN**	Studio Collection designer lever
	**Odeon Series MV**	Studio Collection designer lever

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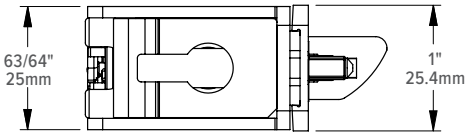
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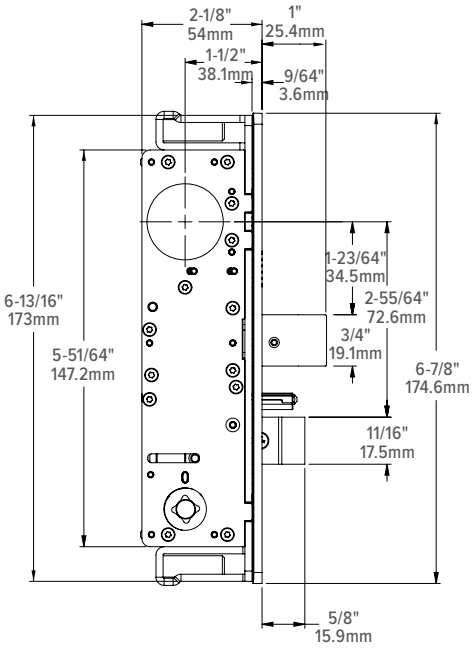
Adams Rite
ASSA ABLOY

Aluminium

All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

2190 Dimensions

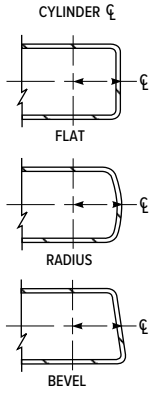




ARMORED FACEPLATE 1" X 6-7/8"
FLAT 24-0066-01 (included)
RADIUS 24-0066-02 (included)
RADIUS W/ WEATHERSTRIP 24-0066-03

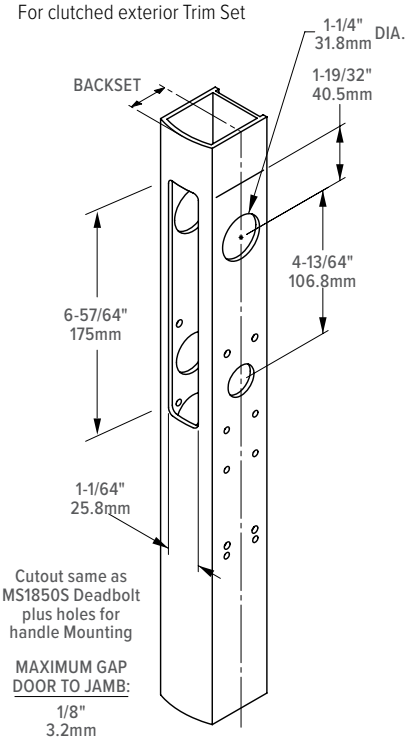
BACKSET	"A"
1-1/8" 28.6mm	1-25/32" 45.2mm
1-1/2" 38.1mm	2-1/4" 57.2mm

HOW BACKSET IS MEASURED:



Stile Preparation

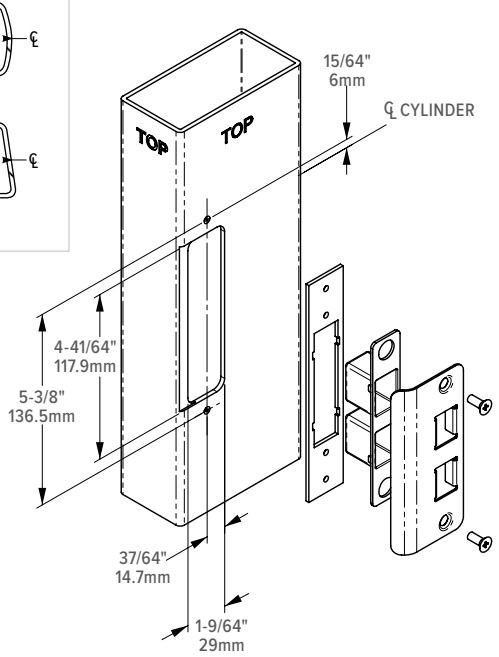
For clutched exterior Trim Set



Cutout same as MS1850S Deadbolt plus holes for handle Mounting

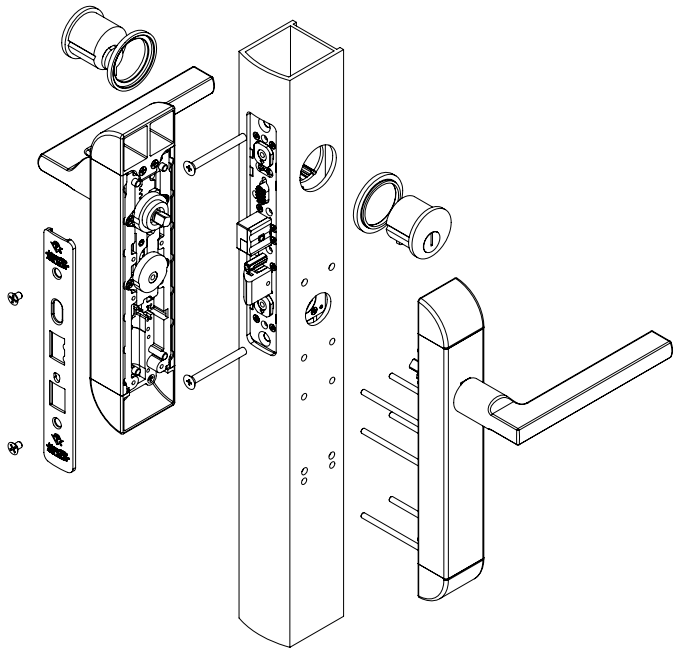
MAXIMUM GAP DOOR TO JAMB:
1/8"
3.2mm

Jamb Preparations



2101 Strike (covers and previous cutout for MS® Deadbolt) — Retrofits 4901 and 4501 strike preparations.

Latch/Lock, Cylinder & Level Installation



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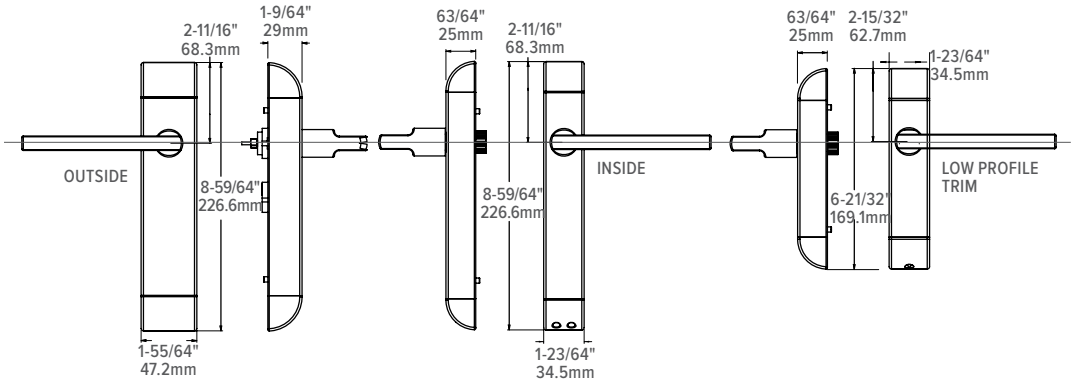
Updated: December 31, 2020

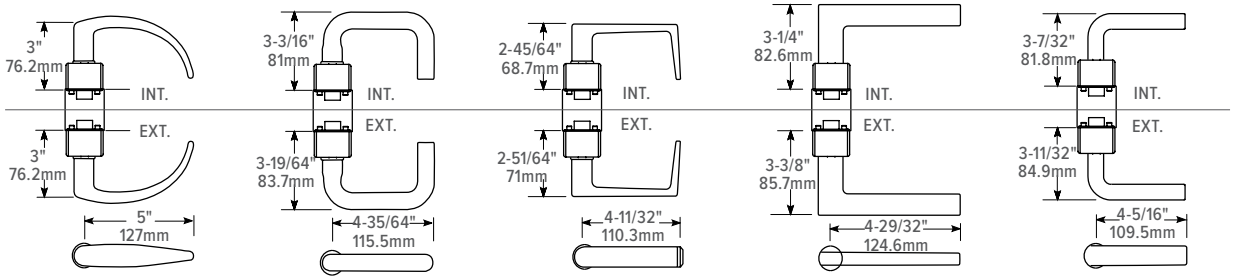
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2190 Dimensions

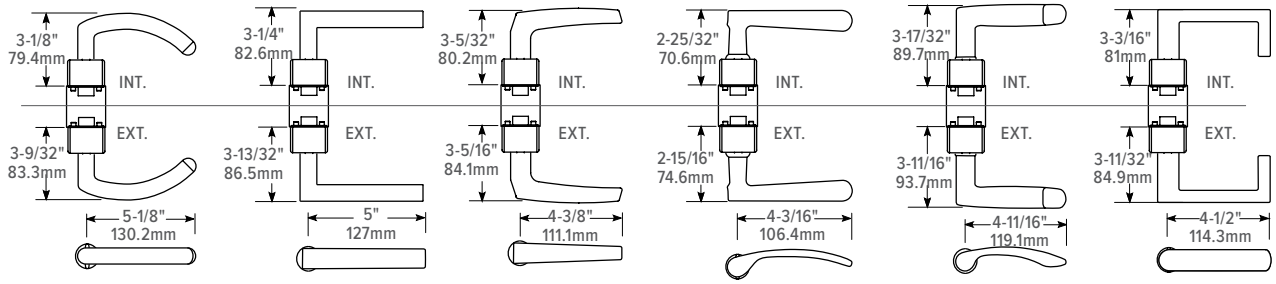
* The 2190-01, -02, and -03 lever handles are designed to return within 1/2" of the door face.

Handles in the Designer Series do not have this same feature. Please verify with local code requirements to ensure compliance.





2190 WITH 01 LEVER* | 2190 WITH 02 LEVER* | 2190 WITH 03 LEVER* | 2190 WITH MD LEVER | 2190 WITH ME LEVER



2190 WITH MG LEVER | 2190 WITH MI LEVER | 2190 WITH MJ LEVER | 2190 WITH MN LEVER** | 2190 WITH MV LEVER** | 2190 WITH MW LEVER

** Handed

How to Order & Related Products

2190 Interconnected Deadbolt/Deadlatch: Specify quantity and the following information. Order related products separately.

MODEL	BACKSET	STRIKE	FACEPLATE FINISH	TRIM	HANDLE DESIGNATION				TRIM AND HANDLE FINISH
2190	-3	1	1	-1	01				32D
	3 1-1/8"	**0** None	**1** Clear Anodized 628	**0** None	**00** No Handle				**03** Bright Brass (US3)
	4 1-1/2"	**1** Standard Flat	**2** Dark Bronze Anodized 313	**1** With Trim Set	**STANDARD SERIES:**				**04** Satin Brass (US4)
		2 Radius Strike	**3** Black Anodized 335	**2** With Electrified Trim Set	**01** Curve	**02** Round	**03** Square		**10B** to match Dark Bronze
		3 Flat/Center Hung 4"		3 Low Profile Trim	**DESIGNER SERIES:**				**32** Bright Stainless (US32)
		4 Flat/Center Hung 4-1/2"			**MD**	**MG**	**MJ**	**MV**	**32D** Satin Stainless (US32D)
					ME (Handed)	**MI**	**MN**	**MW**	

RELATED

When purchasing this product, please consider the following related products, available separately:

CYLINDERS	ACCESSORIES	ELECTRIFICATION
Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn; MS4043 Cylinder Guard	2190-TDK Thick Door Kit for standard exterior trim set, TDK-4600 Thick Door Kit for low profile trim set.	EK-2190 Electrification Kit. 2190 may be ordered with electrified trim (trim option 2).

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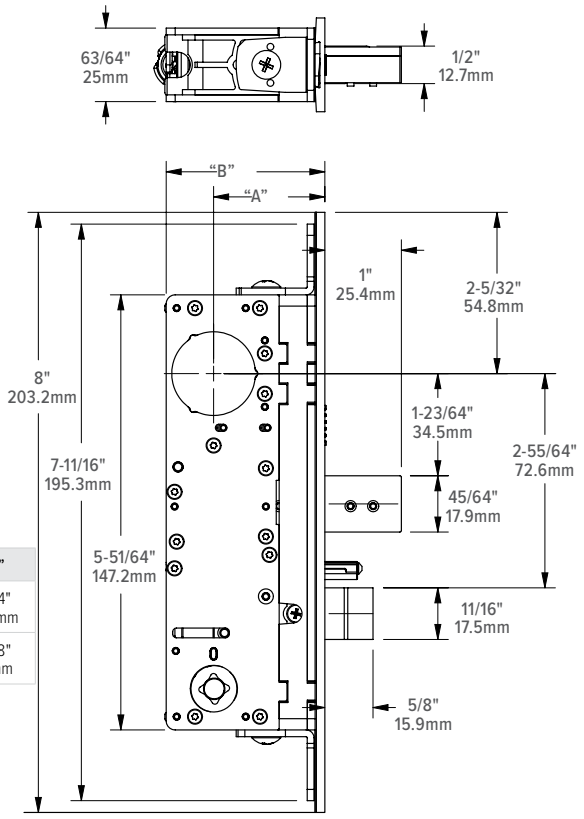
Adams Rite ASSA ABLOY

All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

Wood

Hollow Metal

2290 Dimensions



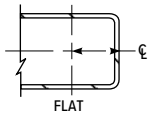
ARMORED FACEPLATE 1-1/4" X 8"

FLAT (included)
FPK-0066-OX-XXX

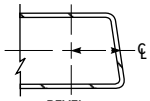
BACKSET	"A"	"B"
1-1/8" 28.6mm	1-1/8" 28.6mm	1-3/4" 45.2mm
1-1/2" 38.1mm	1-1/2" 38.1mm	2-1/8" 54mm

HOW BACKSET IS MEASURED:

CYLINDER ℄



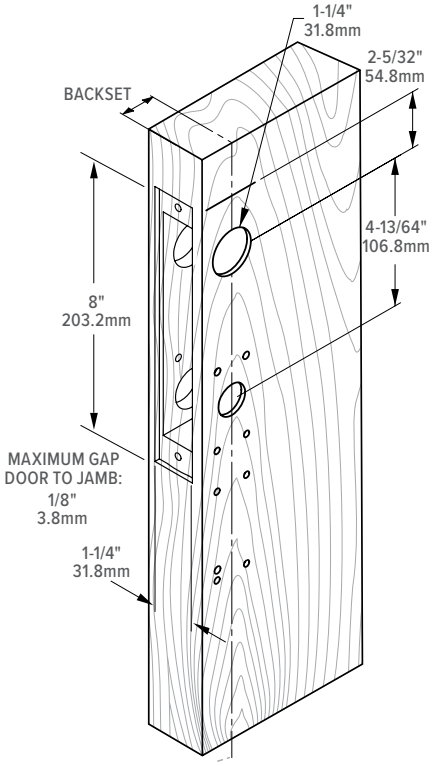
FLAT



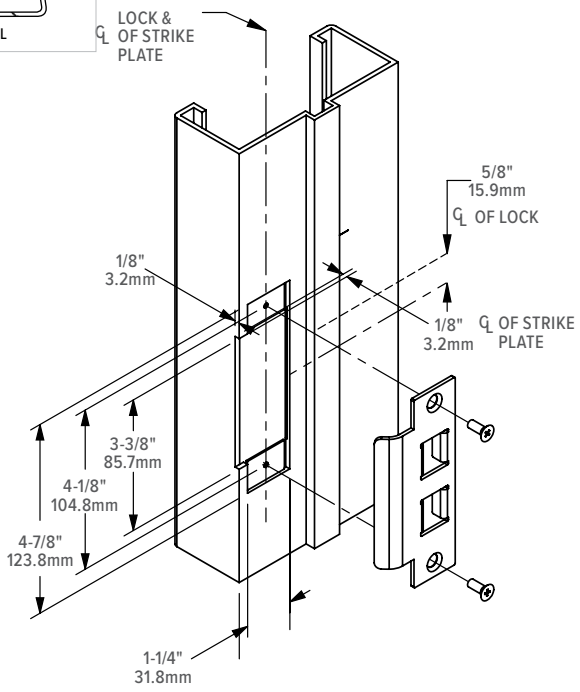
BEVEL

Stile Preparation

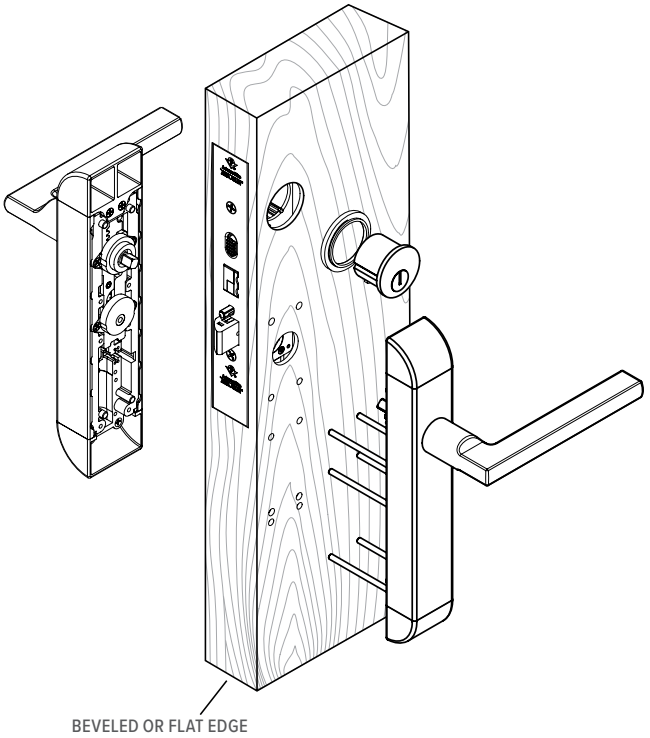
For clutched exterior Trim Set



Jamb Preparations



Latch/Lock, Cylinder & Level Installation



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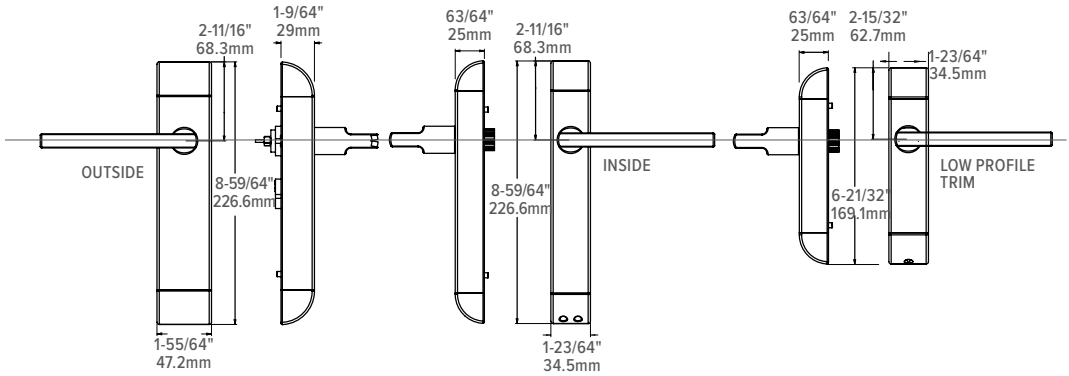
Updated: December 31, 2020

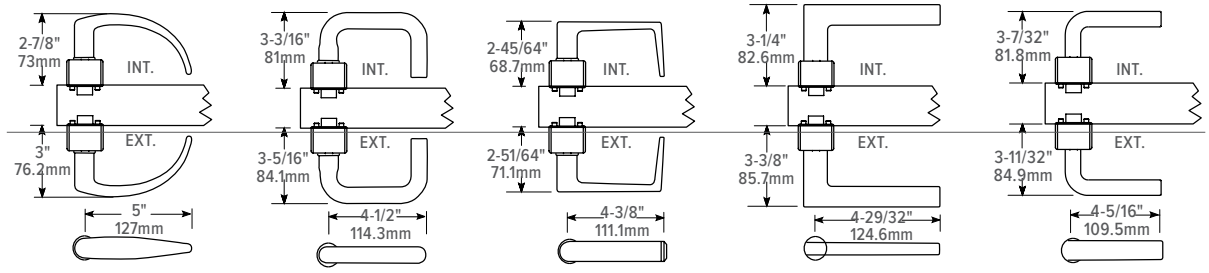
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2290 Dimensions

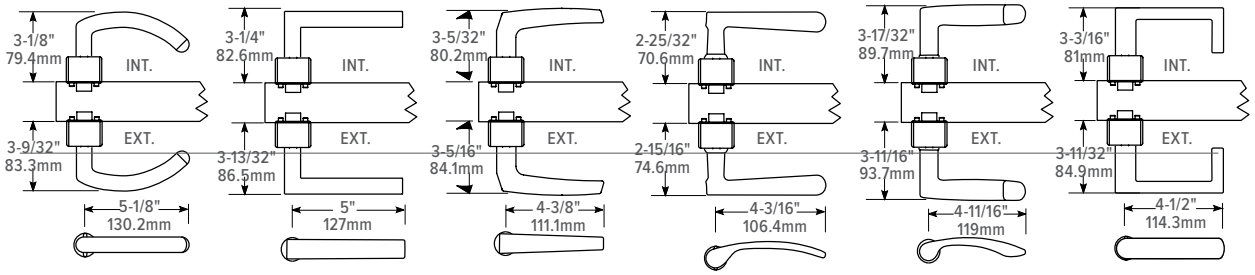
* The 2290-01, -02, and -03 lever handles are designed to return within 1/2" of the door face.

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2290 WITH 01 LEVER* | 2290 WITH 02 LEVER* | 2290 WITH 03 LEVER* | 2290 WITH MD LEVER | 2290 WITH ME LEVER



2290 WITH MG LEVER | 2290 WITH MI LEVER | 2290 WITH MJ LEVER | 2290 WITH MN LEVER** | 2290 WITH MV LEVER** | 2290 WITH MW LEVER

** Handed

How to Order & Related Products

2290 Interconnected Deadbolt/Deadlatch: Specify quantity and the following information. Order related products separately.

MODEL	BACKSET	STRIKE	FACEPLATE FINISH	TRIM	HANDLE DESIGNATION	TRIM AND HANDLE FINISH
2290	-3	1	1	-1	01	32D
	3 1-1/8"	**0** None	**0** US to match trim finish	**0** None	**00** No Handle	**03** Bright Brass (US3)
	4 1-1/2"	**1** Standard Flat	**1** Clear Anodized 628	**1** With Trim Set	**STANDARD SERIES:**	**04** Satin Brass (US4)
			2 Dark Bronze Anodized 313	**2** With Electrified Trim Set	**01** Curve **02** Round **03** Square	**10B** to match Dark Bronze
			3 Black Anodized 335	3 Low Profile Trim	**DESIGNER SERIES:**	**32** Bright Stainless (US32)
					MD **MG** **MJ** **MV**	**32D** Satin Stainless (US32D)
					ME (Handed) **MI** **MN** **MW**	

RELATED

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CYLINDERS	ACCESSORIES	ELECTRIFICATION
Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn; MS4043 Cylinder Guard	2190-TDK Thick Door Kit for standard exterior trim set, TDK-4600 Thick Door Kit for low profile trim set.	EK-2190 Electrification Kit. 2190 may be ordered with electrified trim (trim option 2).

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