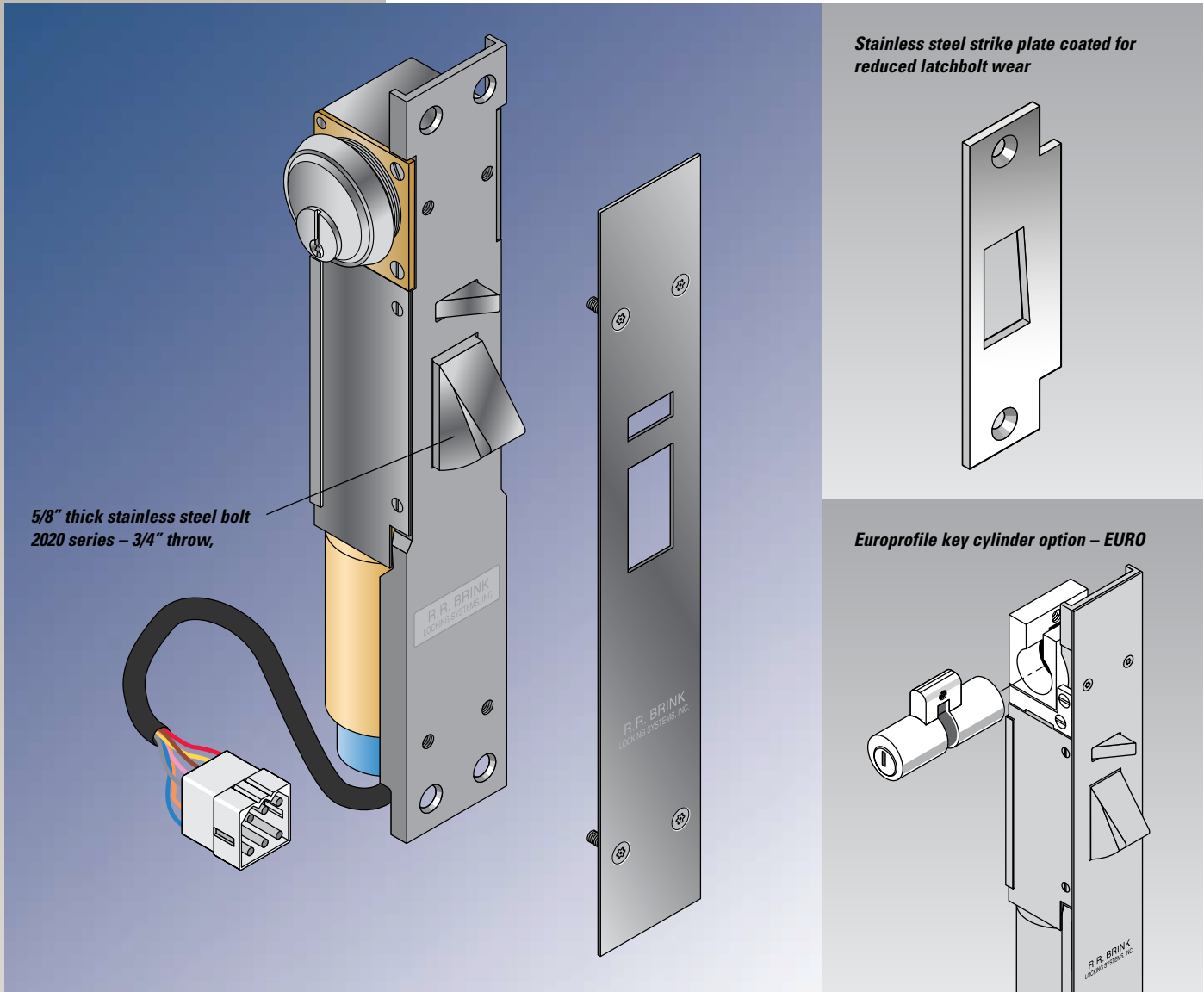


# 2020

## Electromechanical Deadlocking Bolt

Solenoid actuated operation to lock (*Fail-safe*) or to unlock (*Fail-secure*) a door. Designed for hollow metal frame mounting. Available with a 3/4" throw stainless steel bolt.



5/8" thick stainless steel bolt  
2020 series – 3/4" throw,

Stainless steel strike plate coated for  
reduced latchbolt wear

Europrofile key cylinder option – EURO



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### Application

- The 2020 series is ideal as an auxiliary or override lock for access control in secure areas of commercial, governmental, industrial, and institutional buildings.
- Available in "*Fail-safe*" (FS) (i.e. power to lock) or "*Fail-secure*" (FSE) (i.e. power to unlock) modes.
- The "*Fail-safe*" version is commonly used (with fire marshal approval) to secure an emergency exit required to have a panic exit device. For safety, the 2020 is connected to the building's fire detection system to effect automatic unlocking during an emergency. Also, a power failure would initiate unlocking.

- The 2020 has a 3/4" throw stainless steel bolt and narrow lock depth allowing mortise mounting in a standard (i.e. 2" trim) hollow metal door frame or an architectural metal tube (e.g. borrowed light frame mullion).
- Installation of the 2020 series is architecturally unobtrusive and affords superior impact and tamper resistance.

*Note: Unlocking of the "Fail-safe" and "Fail-secure" 2020 is by spring return and solenoid, respectively. A side force on the bolt will overcome these actions and prevent bolt retraction. Therefore, for proper operation, the bolt must be free of side loads.*

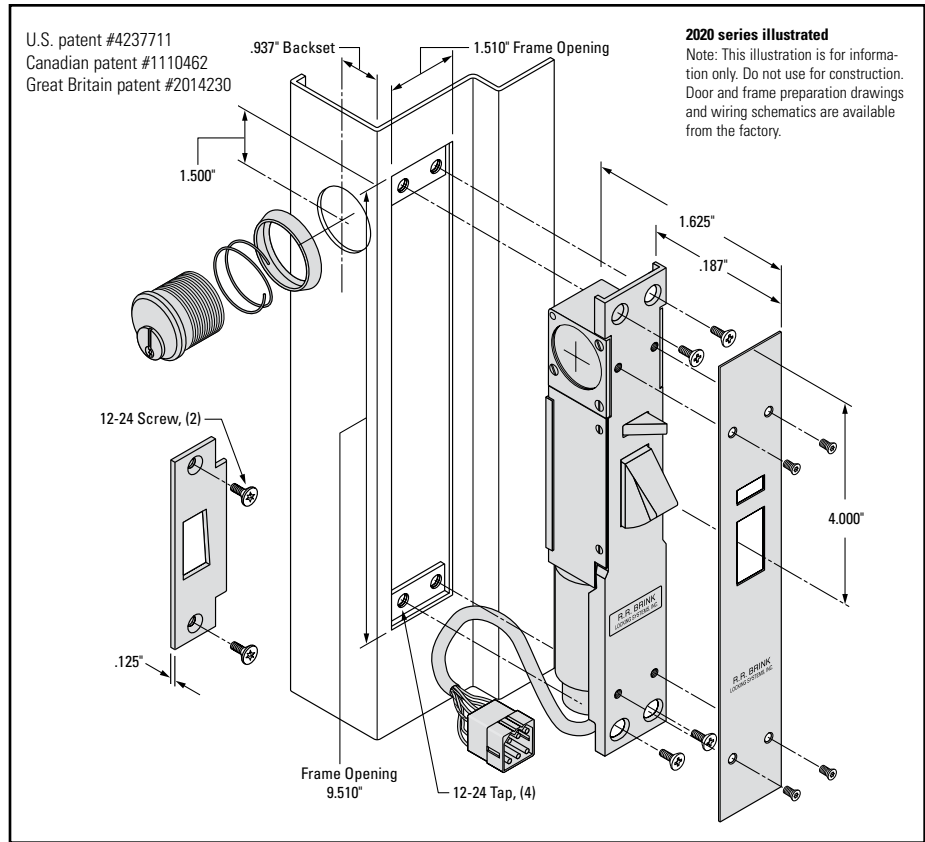
# 2020

## Electromechanical Deadlocking Bolt

Solenoid actuated operation to lock (*Fail-safe*) or to unlock (*Fail-secure*) a door. Model 2020 mounts in a standard hollow metal frame (i.e. 2" trim).

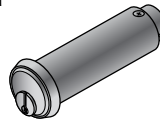
### Standard Features

- Structural and locking parts are stainless steel
- Non-working parts and fasteners of copper alloy or stainless steel
- 3/4" throw cast stainless steel bolt with two (2) saw resistant inserts
- Maintained Switch Latch Holdback (**MSLH**) function (see "Motor Lock Function Reference Guide" for other functions).
- Lock status switch (**LSS**) trips when latch is in deadlocked condition. Used in a signal circuit to indicate lock status – unlocked or deadlocked – via control panel lights and/or alarm devices. The LSS is also used to control an electrical interlock, which permits only one of a group of doors to be unlocked at any time. *Note: For positive, tamper resistant signaling of a closed and deadlocked door, a sensitive door position (DPS) switch must be wired in combination with the LSS. Our DPS Models 201030 or 201090 are recommended.*
- The stainless steel auxiliary (trigger) latch actuates a switch which, when the door is open, serves to hold the bolt retracted and preclude door closure on an extended bolt.
- Mechanical operation via customer supplied standard commercial key cylinder with "Yale" type cam. (Factory supplied key cylinder optional.) For two sided, frame keying see optional "key cylinder extension" (**KCE**).
- Plug connectors are provided for ease in wiring and removal.
- 24VDC cylindrical type constant duty solenoid with double wound coil – "Fail secure" (FSE) pull type and "Fail safe" push type (FS).
- Exposed fasteners – pinned "Torx" head
- Exposed Faceplate/ Strikeplate Finish  
Satin Stainless Steel (ANSI 630, US32D)



### Optional Features

- **FKC** – Factory supplied high security key cylinder with a tapered, free-spinning, spring loaded collar – two change keys/cylinder
- **KCE** – Stop (push) side key cylinder extension extends working length of a standard mortise key cylinder to adapt to jamb depths within a range of 4" to 9" (advise jamb depth dimension). Customer supplied cylinders shall be factory fitted to each KCE. Special fitting is required with non-Yale cam cylinders.
- **EURO** – Lock is adapted for key operation with an Europrofile cylinder – available with 25mm or 45mm backset.



- **MLH** – Mechanical latch holdback by key – latch remains retracted with key removed – available with single side keying and FSE mode only – not available with EURO.
- **RC** – Rectifier with plug-in adapter permits 24VAC input

*Consult with our technical service personnel regarding custom applications such as retrofits to existing lock installations and special mounting situations.*

### Electrical Data

- Solenoid – Dual coil, continuous duty – 24VDC; 1.4 amp in-rush, 0.3 amp seated
- Lock Status Switch – 120/250VAC, 5 amp, SPDT (Form C)
- Bolt Hold Back Switch – 120/250VAC, 10 amp, SPDT (Form C)

### Ordering Information – 2020 Electromechanical Series

Model	Description	Key Cylinder Extension (KCE)	Bolt Throw
2022	2020 keyed one side	Required if key cylinder is mounted on stop (push) side of frame	3/4"
2026	2020 keyed two sides	Required on stop (push) side of frame	3/4"



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