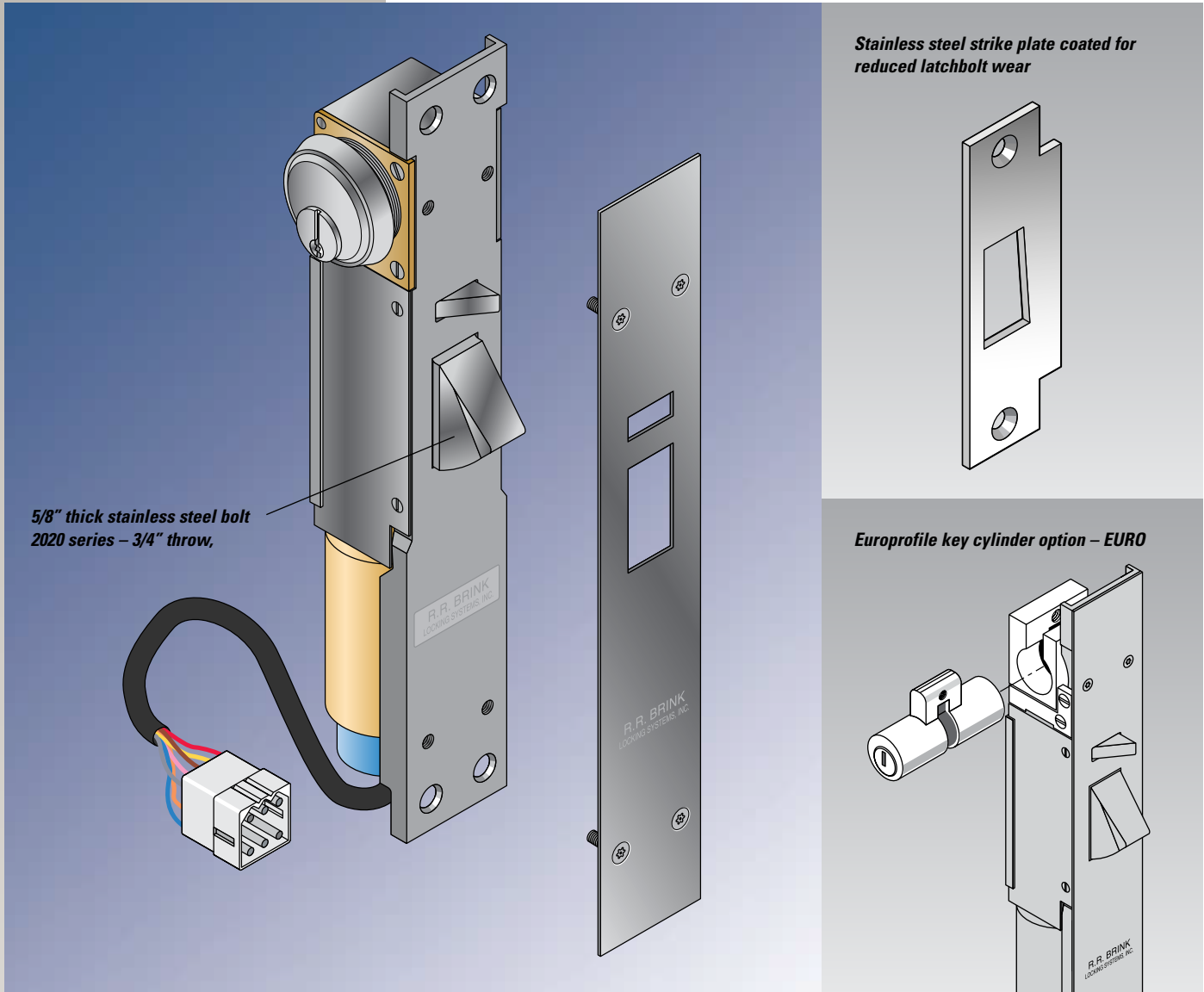


2020

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.



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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

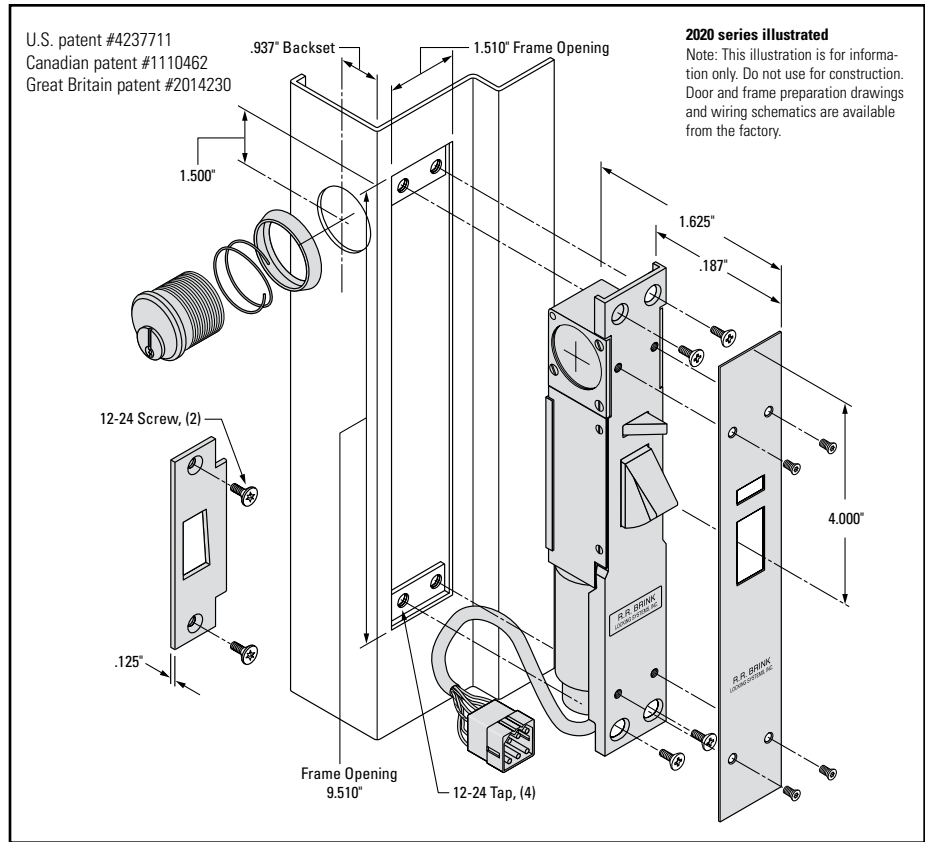
- Structural and locking parts are stainless steel
- Non-working parts and fasteners of copper alloy or stainless steel
- 3/4" throw cast stainless steel bolt with two (2) saw resistant inserts
- Maintained Switch Latch Holdback (**MSLH**) function (see "Motor Lock Function Reference Guide" for other 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)

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)

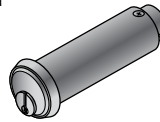


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Optional Features

- **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

Technical Notice

This RRBL5 2020FS employs electronic circuitry to protect its push type solenoid from overheating and possible failure resulting from an inability for the plunger to seat fully under power (i.e. achieve deadlock status) due to external blockage of the deadbolt travel, which is usually caused by a misalignment of the 2020FS's bolt and/or keeper. In the event the solenoid plunger does not seat fully within 2 - 3 seconds after door lock actuation, as can be indicated remotely by an unsecured signal (e.g. red light and/or audible alarm), a power circuit reset becomes necessary to effect proper deadlocking. This requires (1) switching off the lock's power (i.e. enabling bolt retraction), (2) opening the door, (3) correcting the cause of the blockage and (4) re-closing and powering the 2020FS until a secure (aka deadlocked) lock status indication (e.g. green light) is reliably attained.

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"

