

# YD30D

## COBALT DOUBLE

The YD30D, also known as the Cobalt Double, is a revolutionary low voltage motor-driven door lock for 180° doors. It has been designed to secure double acting doors and addresses the two biggest issues for electronic locking; the ability to align a misaligned door and the ability to release when requested, even with excessive load on the door.

The Cobalt Double is typically used in commercial doors and controlled by access control systems. This gives the user the ability to control access in and around a facility and provide traffic reports when desired. Additionally, the Cobalt Double can be used in a more straightforward system where controlling access to a single door can be implemented with a stand-alone access system.





## BENEFITS

### 01

Engineered to release when requested even under significant sideload pressure of up to 6,000N (1,350 lbf).

### 02

The Cobalt Double lock will correct a misalignment of  $\pm 8\text{mm}$  (5/16 inch) automatically eliminating the risk of a door closing but not securing. The perfect solution for swing through doors that don't align exactly.

### 03

Offering feedback to the control panel of the door and bolt positions is a standard feature of the YD30D and vital information to ensure a site is safe and secure.

### 04

Flexibility in installation as the Cobalt Double can be morticed into a door frame vertically or horizontally for a completely concealed install, or surface mounted to any surface including glass with optional accessories.

## FEATURES



### Sideload

World-leading in innovation and engineering, the unique design of the Cobalt Double uses a collapsing mechanism that is deadbolted when locked but will unlock when requested even with 6,000N (1,350 lbf) of force on the door.



### Alignment

The pivot action of the Cobalt Double bolt pins will 'grab' the strike plate and pull the door into position for a misalignment up to 16mm (5/8 inch).



### Fire Tested

The Cobalt Double has been fire tested and approved to ensure the lock won't compromise a fire door's integrity or effectiveness.



### Integrated Access Control

With user-selectable fail-safe and fail-secure modes, and multiple attempts to lock or unlock, the YD30D is ready for a wide range of application requirements. It can be integrated easily with access control or alarm systems.



### Certified

The YD30D has been fully certified for global use including being tested to the EN14846 standard and achieving UL listing. In addition to meeting all compliance requirements, the Cobalt Double is also suitable for use on fire resistant door sets.



### High Security

With 10mm (3/8 inch) thick stainless steel bolt pins, the Cobalt Double has a holding force in excess of 10,000N (2,250 lbf). In addition, onboard control provides auto relock for added security.



### Low Current Consumption

The Cobalt Double will draw as little as 40mA in standby and only 0.75A in operation at 12VDC. Low current paired with high-security access control makes the YD30D a preferred product choice for many industry leaders. Offering an eco-friendly and economical solution, the Cobalt Double utilises a low power mode when in standby.



### Versatile Installation

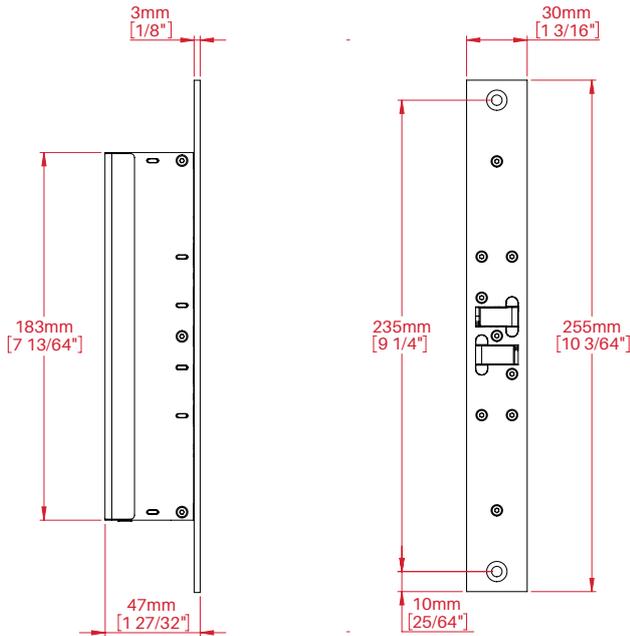
The Cobalt Double can be morticed flush into both the side, or top of many door frames. The lock is supplied with a matching strike plate as standard but additional items are available in the form of a housing and dress plate. These products allow the lock to be surface mounted when mortice installation isn't a preferred, or viable option. The housing and dress plates are supplied with self-adhesive tape for instant application to glass doors and door frames.



### Durability

Tested for endurance for over 1,000,000 cycles, the Cobalt Double offers durability and safety in high volume traffic environments.

**SPECIFICATIONS**



**Door Gap**

6mm (1/4 inch) maximum

**Static strength**

10,000N (2,250 lbf)

**Sideload (release on request)**

6,000N (1,350 lbf)

**Endurance**

Cycle tested to 1,000,000 operations

**Bolt Pin**

10mm (3/8 inch) thick, two pieces  
13mm (1/2 inch) extension

**Alignment**

16mm (5/8 inch) misalignment correction

**Voltage at lock**

12-24VDC ±15%

**Current usage**

Holding: 40mA@12VDC,  
25mA@24VDC

Maximum: 0.75A@12VDC,  
0.4A@24VDC

**Monitor switch ratings**

30VDC max, 100mA max

**Materials**

Lock/Strike Plate: Stainless Steel 304

Bolt Pins: Stainless Steel 17-4PH

**Environment**

IP53

**Compliance & Certification**

- CE Compliant, RoHS 2 Compliant
- FCC Part 15 / IC Compliant
- RCM Compliant, UL Listed
- EN 14846:2008 Certified
- Suitable for use on fire resistant doorsets

**Lock**

YNL230A – Lock with Long Strike Plate

**Accessories**

YNL233A – Long Strike Plate

YNL234J – Housing

YNL236J – Dress Plate

YNL209 - YD30X Wire loom

YNL209A - YD30X Wire loom 5m

YNL208 - Fitting tab kit

**APPLICATIONS**

High traffic volume, double acting pedestrian doors where door alignment or releasing when requested under sideload is required. Commonly seen in mortice installations on office doors but also used on double acting glass doors where security is paramount, convenience required and appearances important. Used across all market sectors.



## MODEL COMPARISON

NAME	APPLICATION	LIFECYCLE	HOLDING FORCE	LOCK DIMENSIONS	BOLT PIN DIMENSIONS	POWER USAGE
<b>YD30S (COBALT SINGLE)</b>	Single acting doors, correcting misalignment, releasing under sideload pressure	1,000,000	1,000kg (2,200lbf)	160 x 30 x 47mm (6 19/64 x 1 3/16 x 1 27/32")	10mm (3/8") thick, 13mm (1/2") extension	Input Voltage: 12-24VDC ± 15% Current: Standby 40mA@12V, Peak 0.75A@12V
<b>YD30D (COBALT DOUBLE)</b>	Double acting doors, correcting misalignment, releasing under sideload pressure	1,000,000	1,000kg (2,200lbf)	255 x 30 x 47mm (10 3/64 x 1 3/16 x 1 27/32")	10mm (3/8") thick, 13mm (1/2") extension, (2 pieces)	Input Voltage: 12-24VDC ± 15% Current: Standby 40mA@12V, Peak 0.75A@12V
<b>YD25</b>	Single acting doors, slim profile, high usage	1,000,000	1,000kg (2,200lbf)	210 x 25 x 43mm (8 17/64 x 1 x 1 11/16")	Ø 12.7mm (1/2"), 16mm (5/8") extension	Input Voltage: 12-24VDC ± 10% Current: Standby 160mA@12V, Peak 1.25A@12V
<b>YD25L</b>	Double acting doors, slim profile, high usage	1,000,000	1,000kg (2,200lbf)	210 x 25 x 43mm (8 17/64 x 1 x 1 11/16")	Ø 12.7mm (1/2"), 16mm (5/8") extension	Input Voltage: 12-24VDC ± 10% Current: Standby 160mA@12V, Peak 1.25A@12V
<b>YD25K</b>	Single acting doors, slim profile, manual override	1,000,000	1,000kg (2,200lbf)	280 x 25 x 43mm (11 11/32 x 1 x 1 11/16")	Ø 12.7mm (1/2"), 16mm (5/8") extension	Input Voltage: 12-24VDC ± 10% Current: Standby 160mA@12V, Peak 1.25A@12V
<b>YD38</b>	Single acting doors, heavy duty, high usage	1,000,000	2,000kg (4,400lbf)	203 x 37.5 x 43mm (8 x 1 1/5 x 1 11/16")	Ø 14.2mm (9/16"), 14mm (9/16") extension	Input Voltage: 12-24VDC ± 10% Current: Standby 230mA@12V, Peak 1.5A@12V
<b>YD38L</b>	Double acting doors, heavy duty, high usage	1,000,000	2,000kg (4,400lbf)	203 x 37.5 x 43mm (8 x 1 1/5 x 1 11/16")	Ø 14.2mm (9/16"), 14mm (9/16") extension	Input Voltage: 12-24VDC ± 10% Current: Standby 230mA@12V, Peak 1.5A@12V
<b>YG80</b>	Any large opening, high strength, extreme environments	300,000	4,000kg (8,800lbf)	80 x 80 x 150mm (3 5/32 x 3 5/32 x 5 29/32")	Ø 18mm (11/16"), 30mm (1 3/16") extension	Input Voltage: 12-24VDC ± 15% Current: Standby 40mA@12V, Peak 1A@12V or 2A@24V with heater
<b>YG80B</b>	Any large opening, direct bluetooth control, high strength	300,000	4,000kg (8,800lbf)	80 x 80 x 150mm (3 5/32 x 3 5/32 x 5 29/32")	Ø 18mm (11/16"), 30mm (1 3/16") extension	Input Voltage: 12-24VDC ± 15% Current: Standby 40mA@12V, Peak 1A@12V or 2A@24V with heater

### WARRANTY

Unless specified otherwise, the Company warrants to the Customer that BQT Solutions Branded Products' (excluding third party products and software) are covered by a return to base warranty on defects in materials and workmanship affecting normal use for a period of the Warranty offered under the Standard Terms and Conditions of Sale from BQT invoice date ('Standard Warranty').

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