

Electric Cabinet Lock

Type ECL

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Applications

secure locking of hinged & sliding elements in -

cabinets • lockers • security doors •
grills & gates • covers

Function

- spring-to-lock
- integral deadlock in locked state (optional)
- up to 18mm stroke

Standard features

- stainless steel locking element and frame
- deadlocked version
- flat locking element for high side-load
- right-angle design (for reduced dimension on lock axis)
- face or side-mounting, installation in any attitude
- coil insulation class B, maximum voltage 250v
- solenoid flying lead connections

Options on request

- door-proving switch
- special fascia plates
- different locking blade designs
- limit switch to prove locked
- manual over-ride
- terminal block or connector

Standards

- ISO 9001:2008



Fig. 1 ECL-SL 5U7
(bare unit)



Fig. 2 ECL-SL 5U7
(with mounting plate & keeper)

ELECTRIC CABINET LOCK (ECL)		
Operating mode - Solenoid * duty rating ED	S1 100% (ie continuous)	
	Solenoid force F_M (N) at blade	Spring return force (N) at blade
	0	0.6
	12	0.2
Power Consumption P_{20} (W)	7	
Weight (bare unit) (kg)	0.2	
Side load on side of blade, max allowable (N)	500**	
Peak load (for deadlocked version SD) (N)	450***	

* Solenoid 5U7 to data sheet '5U7'

** The blade will not withdraw if side-load is present

*** In an attempt to force the element home when applied at the outside of the radius and perpendicular to the mounting face.

Table Notes

0mm is with blade in the retracted position
Force figures F_M are net of the spring force

Table Basis

The terms used are defined in Technical Explanation GXX

Magnetic forces F_M stated are based on

- 24v 100% duty solenoid
- 90% of the rated voltage
- solenoid in Hot condition
- 35°C ambient temperature
- heat-insulated mounting
- blade in horizontal attitude

Table values may vary by up to 10% owing to inherent and manufacturing tolerances

Supply Voltage

Standard voltages : 12V and 24V dc
Other Voltages upon request

Safety

The customer is responsible for ensuring that devices are suitable for the application and that, even if they should fail, safety in use is not compromised. We supply Technical Explanation documents to help users understand our products and assistance is always available from our technical department

Versions

Other locking devices are available – see respective data sheets.

Also, special and modified versions, including

- ATEX / Explosionproof
- IP54 and IP65 protection
- special finishes
- long strokes

Contact our technical department for assistance

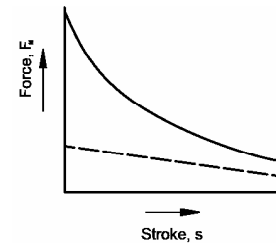


Fig. 3 Force characteristic

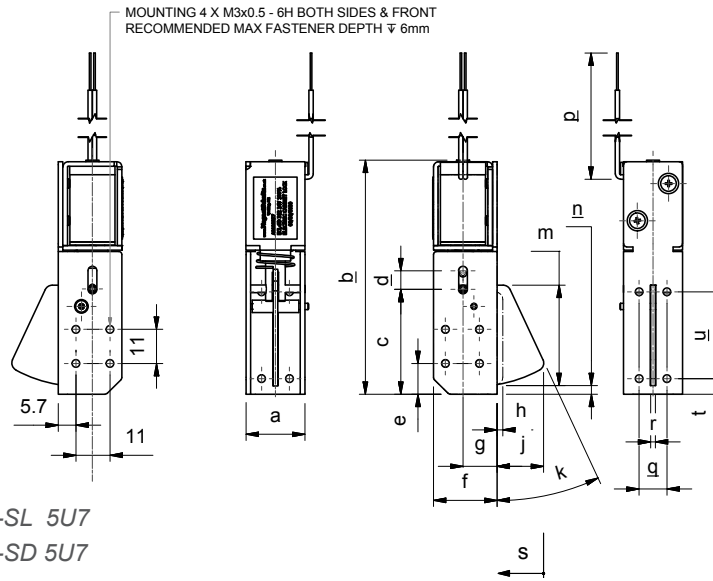


Fig. 4 ECL-SL 5U7
ECL-SD 5U7

Model	a	b	c	d	e	f	g	h	j	k	m	n	p	q	r	s (stroke)	t	u
ECL-SL 5U7	21	96	38	6.5	13.1	25	14.7	2 +0 -1	20 ±1	36°	40	4	150 ±5	10	3	18	6	34
ECL-SD 5U7	21	96	35	9.5	13.1	25	14.7	2 +0 -1	20 ±1	36°	40	4	150 ±5	10	3	18	6	34

Dimensions - mm

MOUNTING PLATES:
(Parts are symmetrical about centre lines)

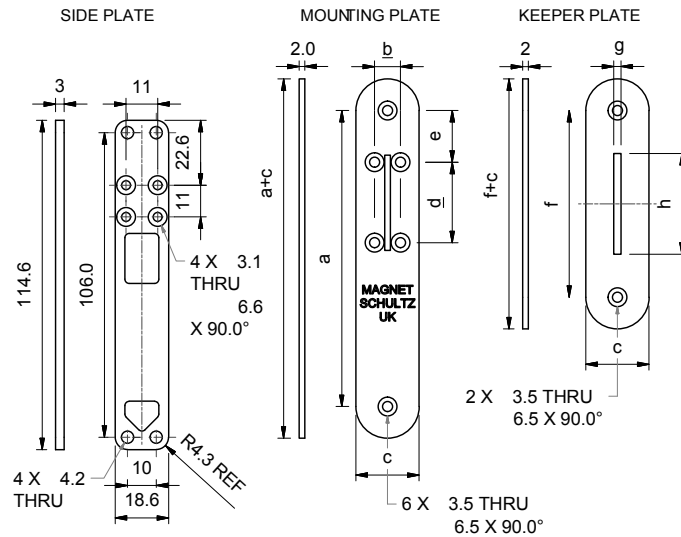


Fig. 5 ECL-SL 5U7
ECL-SD 5U7

Model	a	b	c	d	e	f	g	h
ECL 5U7	130	10	25	34	20	75	4	45

Dimensions - mm

Application Examples:

HINGED DOOR APPLICATION

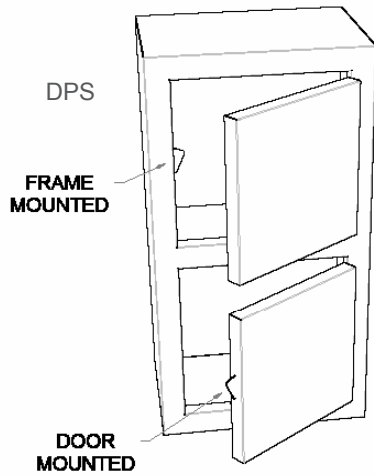
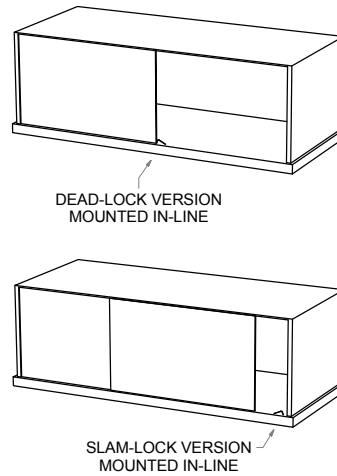


Fig. 6 Installation options

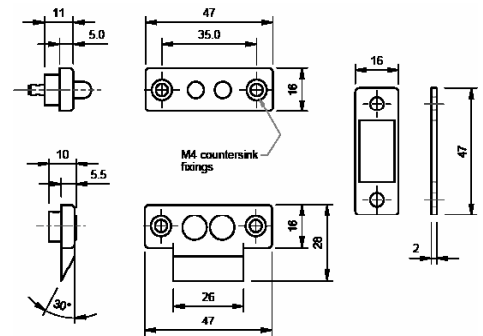
SLIDING DOOR APPLICATION



Lock can be mounted in top or bottom of cabinet

Order example: ECL-SL 5U7 24V/100%

Order Example	ECL	SL	5U7	24V 100%
Type	ECL			
Function		SL (Spring to lock) SD (Spring to deadlock)		
Solenoid type			312 5U7	
Voltage / % duty rating				12V/100% 24V/100%



Ancillary Items	Order Code
Door proving switch - fig.7	P0200342
Mounting plate & keeper set - fig.5	A9900064
Side plate & keeper set - fig.5	A9900071



Fig.7 Door proving contact switch

Need more information or advice?

Email one of our technical experts at sales@magnetschultz.co.uk or call +44(0)1483 794700 now