



ES20/ES20M

**Non Monitored/ Monitored
Electric Strike**



v.1.7

2019-07-25





Introduction

The ES20/20M electric strikes are fully monitored high security door strikes. The ES20/20M series are designed to provide Power to Lock (PTL) or Power to Open (PTO) change over by rotating the “Capstan” locking mechanism without tampering with the internal locking operations. Both ES20 and ES20M are manufactured purely from stainless steel alloy with 850kgs holding force, 160J impact resistance, 1 million product life cycles, and have the added advantage of accepting DC voltages from 10 to 30 volts. In addition, the ES20M model is provided with full monitoring features including Lock Status Sensor, Door Status Sensor and “Anti-Tamper Switch” to allow entire security control as part of a building management system.

Specification

SPECIFICATION	ES20/ES20M
Illustration	<p style="text-align: center;">ES20M Model, ES20 Model without DSS, LSS, ATS monitoring</p>
Certifications	<p>BS EN1634-1:2014 Fire rated 4 hours EN 1634-1:2014 Fire rated 4 hours BS 476-22:1987 Fire rated 4 hours</p>
Fail Safe/Fail Secure	Can be manually switched between Power to Open and Power to Lock
Lock Dimension	176.0L x 44.5W x 26.5H (mm)
Lock Operating Voltage	12~24VDC ±10%
Lock Operating Current	12VDC – 220mA 24VDC – 120mA
Lock Holding Force	850kgs
Impact Force	160J





Output Signals	ES20M only:
	Anti-Tamper Switch (ATS) COM/NO/NC Max. 125VAC, 5A; Max. 250VAC, 3A
	Door Status Signal (DSS) COM/NO/NC Door closed or opened status output Max. 125VAC, 3A; Max. 30VDC, 2A
	Lock Status Signal (LSS) COM/NO/NC Lock closed or opened status output Max. 125VAC, 3A; Max. 30VDC, 2A
Operating Temp	-10°C ~ 60°C
Weight	0.6kgs
Operating Humidity	0 ~ 80% (non-condensing)
Surface Finish	Stainless Steel Body
Standard Packing	20pcs/carton

Wiring and Voltage Setting

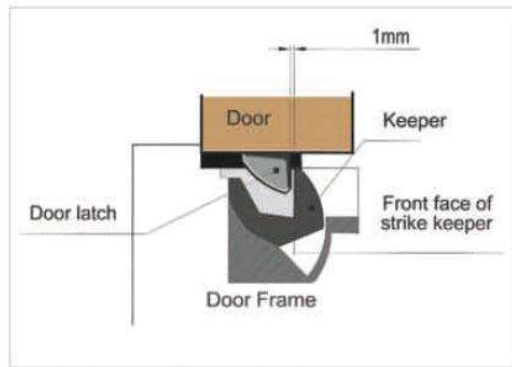
TERMINAL	DESCRIPTIONS
Wiring	12~24VDC Power Input, 2 terminals, Red (+)/Black(-) LSS Output, 3 terminals, C/NO/NC, Black/Yellow/Green 3A, 125VAC; 2A, 30VDC DSS Output, 3 terminals, C/NO/NC, Black/Blue/Orange 3A, 125VAC; 2A, 30VDC ATS Output, 3 terminals, C/NO/NC, Black/Red/White 5A, 125VAC; 3A, 250VAC





ES20/ES20M Installations

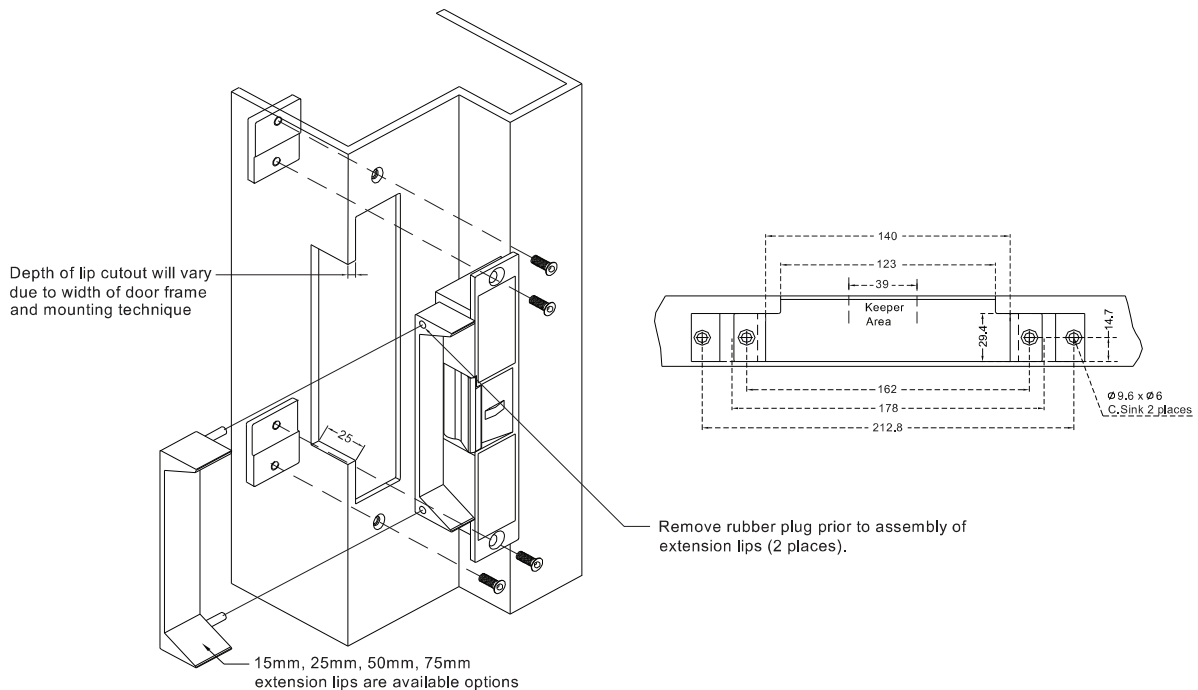
Electric Strike and Mortise Lock Configuration:



NOTE:

As shown from the figure above, it is important to have a 1mm gap between the door latch and the front face of strike keeper to prevent the door from exerting back pressure on the keeper while the door is closed

Installation For ES20/20M:





ES20/ES20M Series Models and Accessories

ES20/20M SERIES	MODEL NUMBER	DESCRIPTION
Model	ES20	Standard ES20 Electric Strike without monitoring
	ES20M	ES20 Electric Strike with full monitoring
	ES20-LL	Standard ES20 Electric Strike, Lipless version
	ES20M-LL	ES20 Electric Strike with full monitoring, Lipless version
Accessories	ES20-EL15	Extension Lip of 15mm for ES20 series
	ES20-EL25	Extension Lip of 25mm for ES20 series
	ES20-EL50	Extension Lip of 50mm for ES20 series
	ES20-EL75	Extension Lip of 75mm for ES20 series

