ButterflyMX

Wiring Diagram

For the 8" and 12" Intercom

⚠ Images are not to scale.

Cut

Strip

24VDC

UPS: min 300 W / 600 VA

UPS

POWER

Option A: Access
Control System*

LOCKING

ACCESS CONTROL SYSTEM

ButterflyMX

REX

110 - 240 VAC

Option B: Door
Strike

INTERNET

Diode   OR   Varistor**

ELECTRIC
LOCKING
HARDWARE

Option A: Direct
to Router

Option B:
Network Switch

250 ft
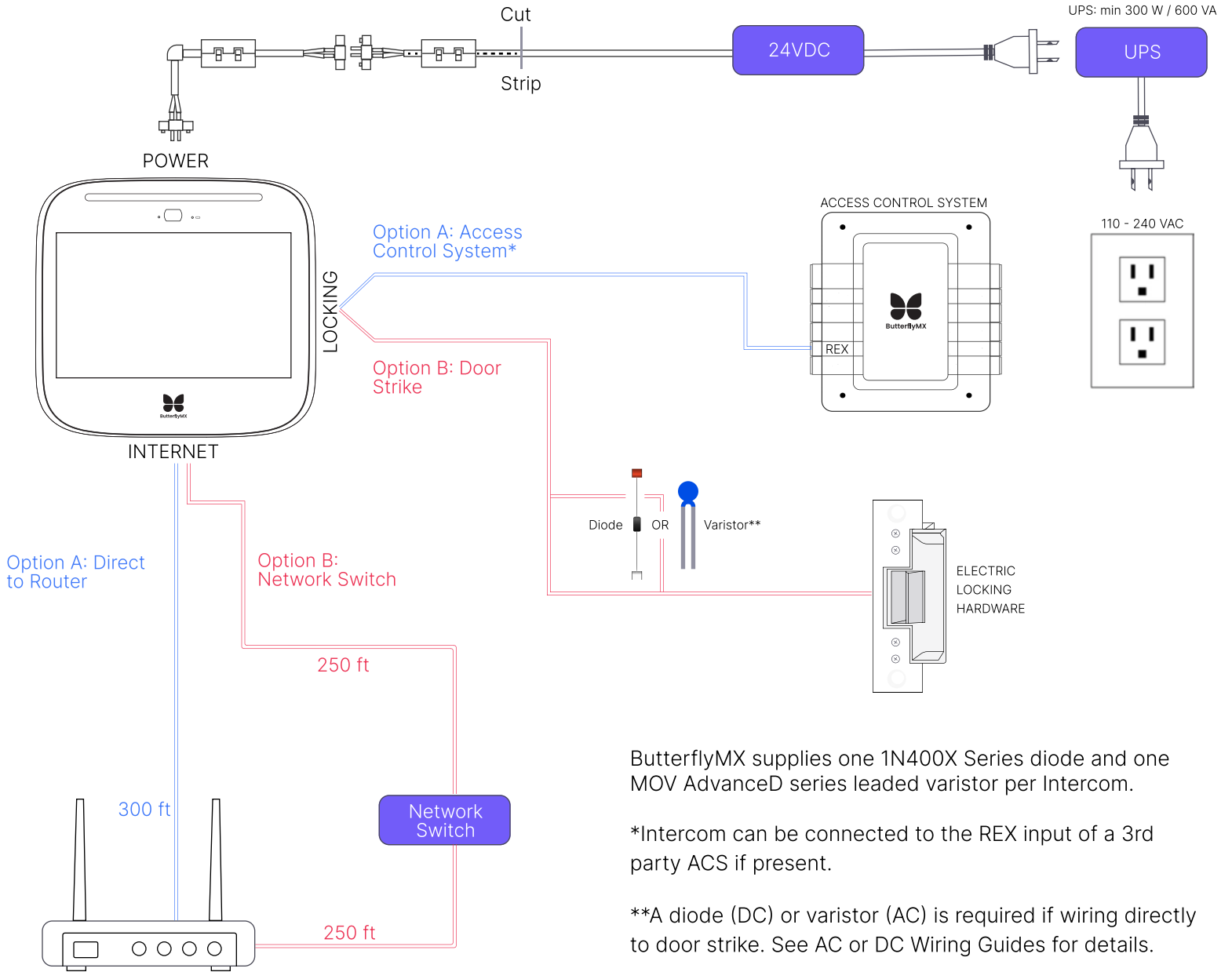
ButterflyMX supplies one 1N400X Series diode and one
MOV AdvanceD series leaded varistor per Intercom.

*Intercom can be connected to the REX input of a 3rd
party ACS if present.

**A diode (DC) or varistor (AC) is required if wiring directly
to door strike. See AC or DC Wiring Guides for details.

300 ft

Network
Switch

250 ft

(800) 398-4416 ext. 2

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Wiring Information

For the 8" and 12" Intercom

Connection Path	Compatible Cables	Max Length
Intercom to electric locking hardware	18 AWG, 2 conductors (18/2) cable	See lock power supply for specifications and distance.
Intercom to ButterflyMX Access Control System (or third-party ACS)	18 AWG, 2 conductors (18/2) cable	—
Intercom to power outlet	10' 24VDC / 2.08A / 50W power supply (6' AC cord)	DC length and gauge vary based on distance from Intercom to outlet. • 0 - 10 ft: use power adapter that is included & always install UPS. • 10 - 50 ft: 18 AWG • 50 - 100 ft: 16 AWG • 100 - 180 ft: 14 AWG • 180 - 300 ft: 12 AWG If run length exceeds 200 ft, consider using a junction box.
Intercom to internet router	Ethernet: CAT5e or higher (RJ45 terminations)	328 ft • Length varies based on distance from Intercom to router. • If distance is greater than 300 ft, a switch or repeater is required. • Use a shielded twisted pairs cable wherever possible. *Note: Never splice Ethernet cables. Do not use couplers, extenders, or data jacks.* Wireless options are available. Please see network requirements.