

ELR SYSTEM

Electric Latch Retraction (ELR) - for all 17 and 18 Series devices.

The Electric Latch Retraction (ELR) feature provides control of latch retraction by guard or security system, allowing free entrance from outside or trim side of door. The ELR system can be activated to hold the latch open momentarily or for extended periods of time. The ELR feature can be interfaced with automatic doors, card readers, automatic fire alarm systems, etc. The ELR application requires the use of the RDS-2 power supply.



Wire Chart

LENGTH OF WIRE RUN (FT.)	24VDC 4 AMPS
0-100	14 AWG
101-200	12 AWG
201-300	10 AWG
301-400	8 AWG

Specifications

- Solenoid rated for continuous-duty operation with RDS-2 (required power supply).
- Current inrush provided by RDS-2 of 24V DC 4 Amps for one second duration, 5V DC 1 Amp continuous.
- Supply voltage required to RDS-2 - 115V/60HZ/5 Amps.
- Solid state circuitry, microprocessor based.
- RDS-2 power supply (required):
 - On-board D.I.P. switches for variable relatch delay.
 - On-board L.E.D. diagnostics.
- Power transfer hinge or electric power transfer required (4 wires rated at 1 Amp).
- Electric Latch Retraction can be used in conjunction with EA (Exit Alarm), FSA/FSE (Fail Safe/Fail Secure), ED (Electric Dogging) and Security Monitoring (DM, LM, AE, SM, LK) features; ELR feature is available on all 17 and 18 Series standard device specifications.
- Auto-reset fuse.

Special Application Specifications

- Recommended for automatic door operations openings. Use SM feature to activate automatic operator eliminating the need for relays and timing issues.



Required Power Supply- RDS-2*

The RDS-2, when energized by closing a dry contact switch, will activate the first ELR device and one second later will activate the second ELR device. For each RDS-2, two ELR devices can be controlled by one switch. To be able to control each independently, an RDS-2 would have to be ordered for each ELR feature. The ELR feature will not work properly without the RDS-2 power supply. To order, specify "RDS-2".

Note:

1. Each RDS-2 comes in an 8" x 8" x 4" NEMA rated box.
2. RDS-2 weight is 9 lbs. 6 oz.
3. For hook-up, see schematic on opposite page.
4. ELR devices will not work properly and will not be warranted without purchase of RDS-2 power supply.

How to Order

To order ELR feature add "ELR" prefix to device designation. (Example: ELR-18-R-EO)

Note:

1. Closing normally open dry contact to the RDS-2 power supply will retract latch(s). Opening normally open switch returns latch(s) to locked position.
2. For special applications, consult factory.

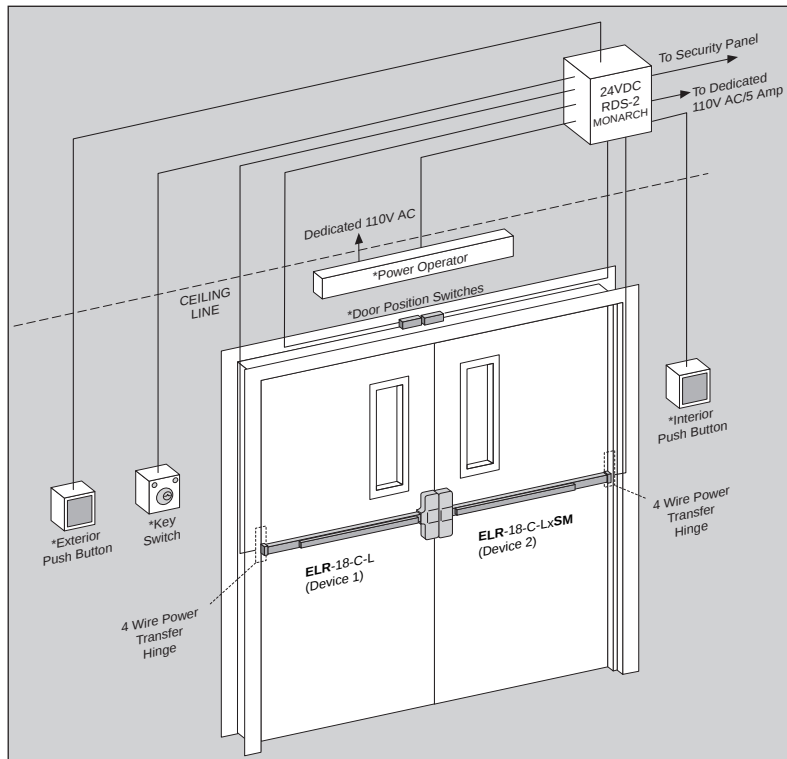
**Power supply must be purchased for warranty to apply.*

APPLICATION AND WIRING

Electric Latch Retraction (ELR)

Electric Latch Retraction-Double Doors x Key Switch

EXAMPLE: ADA Compliant Entrance



Operation:

- Push button or card reader/keypad use from interior or exterior allows latch retraction and entry from either door.
- Retraction of the solenoid on device with integral SM momentary dry contact monitor switch initiates power operator.
- Exterior card reader or keypad may be turned on/off by maintained contact key switch.

*Supplied by Schlage.

Features shown: ELR Electric Latch Retraction
SM Solenoid Monitor Feature

RDS-2 Schematic

Incoming Power
110V AC
60Hz
5 AMPS

