Electro Standards Laboratories
ADVANCED SYSTEMS DESIGN & SERVICES

MADE IN USA

RoHS Compliant

SPECIFICATIONS
MODEL 9085R
(Cat. No. 309085R)

LineSelect® Model 9085R RJ45 A/B Switch, Remotely Controllable, DIN Rail Mounted, Cat5e, RoHS and REACH Compliant

- *Convenient DIN rail mounting!*
- *Ideal for use in process control systems requiring switching between multiple Programmable Logic Controllers (PLC's)*

INTRODUCTION

The LineSelect® Model 9085R RJ45 A/B switch allows the user to access two RJ45 devices connected to it's A and B ports with one RJ45 device connected to its COMMON port. The unit is controlled by the presence or absence of a 24VDC signal applied to its Control Port. The LineSelect® Model 9085R switch is easily integrated as a system component by utilizing its rear panel DIN rail mounting bracket.

OPERATION

When 24VDC is not applied to the Control Port, the unit will be in the "A" position and the POSITION LED will be OFF. When 24VDC is applied to the Control Port, the unit will be in its "B" position and the POSITION LED will be ON.

FEATURES:

- Allows (1) COMMON RJ45 port to be shared among either of (2) RJ45 ports "A" and "B".
- **Controlled by 24VDC signal applied to Control Port.**
- Switches all 8 leads of the RJ45 interface via break-before-make electromechanical relays.
- **Certified for category 5e compliance.**
- **RoHS, and REACH, compliant.**
- DIN rail bracket on rear panel.

LineSelect® Model 9085R

BOTTOM PANEL

DIN Rail Bracket

FRONT PANEL — REAR PANEL
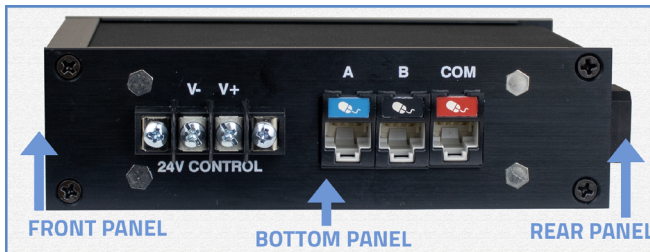
SPECIFICATIONS:

PORT CONNECTORS: (3) RJ45 female connectors labeled A, B, and COMMON.
CONTROL PORT: (1) Barrier strip accepts 24VDC, 50mA control signal to switch unit between its "A" and "B" position.
DISPLAY: (1) Front panel LED displays switch position.
DIMENSIONS: DIN Rail Mount Package: 1.75"W x 4.25"H x 6.0"D. (4.4 x 10.8 x 15.2 cm)
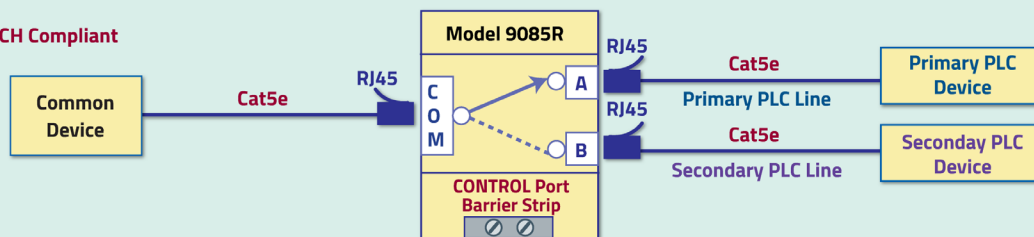**WEIGHT:** Approximately 1.1 lbs. (0.5 kg)

V- V+
24V CONTROL
A   B   COM

FRONT PANEL — BOTTOM PANEL — REAR PANEL

Cat5e patchcords - ideal for 10BASE-T, 100BASE-T, 1000BASE-T Ethernet and Gigabyte Ethernet

Color	3 ft.	5 ft.	10 ft.	25 ft.
Black	990328-003	990328-005	990328-010	990328-025
Red	990333-003	990333-005	990333-010	990333-025
Yellow	990336-003	990336-005	990336-010	990336-025

LineSelect® Model 9085R Cat5e Application ... Switches ANY RJ45 interface!

Model 9085R
- RoHS and REACH Compliant

Common Device — Cat5e — RJ45 — Model 9085R (COM) — A / B — RJ45 — Cat5e Primary PLC Line — Primary PLC Device
RJ45 — Cat5e Secondary PLC Line — Secondary PLC Device

CONTROL Port Barrier Strip

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ADDITIONAL FEATURES & INTEGRATION BENEFITS:

- **System Integration-Ready Design** – DIN-rail mountable housing for easy installation within industrial racks, control cabinets, or automation panels, enabling quick integration into process control and network systems.
- **Remote Control via 24 VDC Barrier Strip** – Accepts a remote DC control signal to switch between A and B network paths, facilitating automation with PLCs, HMIs, or other control logic without operator intervention.
- **Supports HMI/PLC Redundancy** – Allows one common networked device (e.g., an HMI or field instrument) to switch between Primary and Secondary controllers or communication paths, enabling redundancy without manual cable swaps.
- **Transparent 8-Lead Switching** – Physically switches all eight RJ45 conductors, ensuring complete signal path isolation and compatibility with Ethernet, serial over RJ45, or other Cat5e network interfaces.
- **Enhanced Security Compared to Software**-Only Solutions – Provides hardware-level physical switching, eliminating reliance on software logic that can be vulnerable to configuration errors, malware, or operating system failures. A hardware switch ensures deterministic, auditable path selection.
- **Durable, Shielded Construction** – All-metal enclosure with Cat5e compliance offers electromagnetic interference (EMI/RFI) protection, improving reliability in industrial environments where noise immunity is critical.
- **LED Position Feedback** – Front-panel LED indicates current switch state (A or B), giving operators and control systems clear, real-time status without polling or network management tools.