B&R 5AC901.LSD3-00

01 SDL3 Transmitter Option / system role

Product function and operating context

B&R 5AC901.LSD3-00 separates the operator panel from the industrial PC while retaining a single communication path for video, touch input and panel-related services.

The option supplies one shielded RJ45 SDL3 output for an APC910. With a compatible Automation Panel SDL3 receiver and the specified SDL3/SDL4 cable, the link can extend to 100 m without an external adapter module.

Functional path

APC910 graphics option	SDL3 transmitter	Specified link cable	Compatible panel receiver

Host	Automation PC 910
Link	SDL3 up to 100 m
Functions	Display, touch, USB and panel services

SDL3 carries display data together with touch, matrix-key, LED and diagnostic information, and transfers USB 2.0 over the same distance. The RJ45 connector uses SDL3 transmission technology and is not a general Ethernet network port.

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02 Technical operating envelope

Host compatibility	Automation PC 910
Interface	1 × SDL3 transmitter output
Connector	Shielded RJ45 female
Supported link length	Up to 100 m with specified SDL3/SDL4 cable
USB transfer	USB 2.0 through SDL3

Power consumption	4 W
Accessory operating range	0–55 °C, system limits also apply
Operating humidity	5–90% RH, non-condensing
Status indicators	Status and Link
Connector endurance	500 mating cycles

Accessory ratings apply to 5AC901.LSD3-00. The complete APC910 and panel configuration can impose tighter environmental limits.

Operating interpretation

SDL3 is a dedicated display-link technology; an Ethernet switch or ordinary network topology does not extend or distribute this connection.

Configuration boundary

Match APC910 host support, panel receiver, SDL3 cable and complete-system thermal conditions when replacing the option.

Which host platform accepts 5AC901.LSD3-00?

It is a monitor/panel option for Automation PC 910. A different industrial-PC family requires its own verified option compatibility.

What may be necessary after reconnecting a touch panel to 5AC901.LSD3-00?

Touch recalibration can be necessary after hot reconnection. Check alignment of touch input with the displayed controls before operator use.

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03 System integration and applications

Remote operator panels

Place a compatible Automation Panel away from the APC910 within the supported link distance.

Single-cable panel communication

Carry display, touch and USB functions through the defined SDL3 path.

Restricted feed-throughs

Use the RJ45 connection arrangement where panel supports and cable passages require a compact interface.

Panel-service verification

Check video, touch and peripheral functions together after replacement or reconnection.

System and supply context

B&R 5AC901.LSD3-00 operates within the following defined system context. Verify APC910 compatibility and the matching SDL3 receiver.

Application boundary

The applications below describe its technical role. Select associated hardware and configuration for the actual installation.

How far can 5AC901.LSD3-00 separate an APC910 from its panel?

The supported SDL3 link is up to 100 m using the specified B&R SDL3/SDL4 cable and compatible receiver arrangement.

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04 Engineering selection decisions

Is the RJ45 connector on 5AC901.LSD3-00 an ordinary Ethernet port?

No. It uses SDL3 transmission technology. It must connect to the compatible SDL3 panel arrangement rather than an Ethernet switch.

Does 5AC901.LSD3-00 require a separate USB cable over the panel distance?

SDL3 carries USB 2.0 together with display and panel communication over the supported link, so the normal SDL3 arrangement does not require a separate long USB path.

Does the 55 °C accessory limit of 5AC901.LSD3-00 guarantee a 55 °C complete PC installation?

No. Complete-system temperature tables and configuration restrictions can impose a lower limit.

What panel information besides video can 5AC901.LSD3-00 transfer?

The link carries touch, matrix-key, LED and service/diagnostic information, together with USB 2.0 communication.

Exercise panel peripherals	Test the USB, key and LED functions that the installed panel uses. A correct image alone does not verify every channel carried through SDL3.
Retain the panel-link record	Save host and receiver identities, cable type and length, tested panel functions and any recalibration result. Keep the SDL3 connection distinct in the network and service drawings.

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05 Configuration boundary and references

Lifecycle and support

The current manufacturing and factory-support phase of 5AC901.LSD3-00 is unconfirmed. Apter Power availability is assessed separately from manufacturer lifecycle status.

Replacement assessment

Match APC910 host support, panel receiver, SDL3 cable and complete-system thermal conditions when replacing the option.

Document roles

Use the original manufacturer excerpt for its preserved technical tables and drawings. This product brief explains selection and system context. The separate installation guide covers preparation, connection, tests and handover; use it together with the applicable manufacturer instructions.

Technical basis

B&R Automation PC 910 User's Manual, V2.13.

Related product navigation

- B&R X20CP1486
- B&R X20CP1485

These are related references, not confirmed substitutes or an automatically approved assembly.

Product enquiries