4.2.13.3 5AC901.LSD3-00

4.2.13.3.1 General information

The 5AC901.LSD3-00 monitor/panel option is equipped with an SDL3 interface.

- SDL3 interface
- Compatible with APC910

4.2.13.3.1.1 SDL3 operation

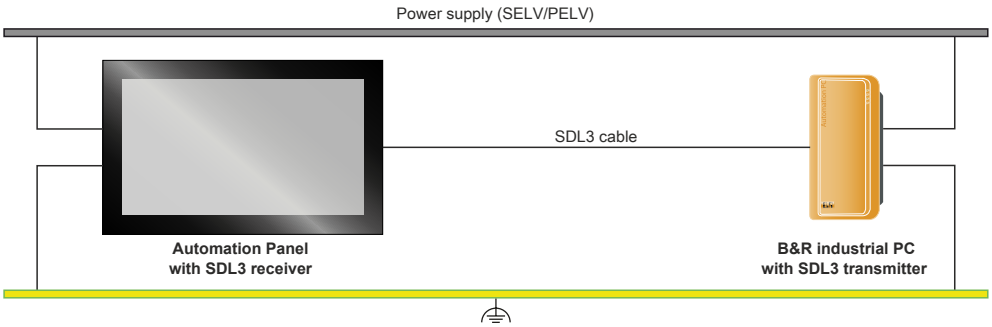
Smart Display Link 3 (SDL3) technology transfers all communication channels between a B&R industrial PC and panel up to 100 m over a standard Ethernet cable (min. Cat 6a). An RJ45 connector is used for the device connection, which is ideal for confined spaces in feed-throughs and swing arm systems.

SDL3 operation with SDL3 transmitter

In SDL3 operation with an SDL3 transmitter in the B&R industrial PC, all communication between the Automation Panel and B&R industrial PC takes place via a single SDL3 cable.

In addition to the display data, information from the touch screen, matrix keys, LEDs and service/diagnostic data is transferred. The Automation Panel can be installed up to 100 m away from the B&R industrial PC. USB 2.0 is also transferred over this distance and fully integrated into SDL3. External adapter modules are not required.

The brightness of the display can be set via the ADI Control Center.



Availability of interfaces on Automation Panels with an SDL3 receiver:

SDL3 interface	✓	USB1, USB2	✓	USB 2.0	Power supply	✓	Grounding ✓

Maximum cable length for SDL3: 100 m

Requirements

- Automation Panel with SDL3 receiver
- B&R industrial PC with SDL3 interface
- SDL3/SDL4 cable

4.2.13.3.2 Order data

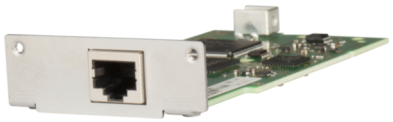
Order number	Short description	Figure
	Monitor/Panel options	
5AC901.LSD3-00	Graphics option - 1x SDL3 transmitter - For APC910	

Table 99: 5AC901.LSD3-00 - Order data

4.2.13.3.3 Technical data

Information:

The following specified characteristic data, features and limit values are only valid for this accessory and may differ from those of the complete system. The data specified for the complete system applies to the complete system in which this accessory is installed, for example.

Order number	5AC901.LSD3-00
General information	
LEDs	Status, Link
B&R ID code	0xE400
Certifications	
CE	Yes
UL	cULus E115267 Industrial control equipment
EAC	Product family certification
Interfaces	
SDL3 Out	
Variant	Shielded RJ45
Type	SDL3
Electrical properties	
Power consumption	4 W
Operating conditions	
Pollution degree per EN 61131-2	Pollution degree 2
Ambient conditions	
Temperature	
Operation	0 to 55°C [1]
Storage	-20 to 60°C
Transport	-20 to 60°C
Relative humidity	
Operation	5 to 90%, non-condensing
Storage	5 to 95%, non-condensing
Transport	5 to 95%, non-condensing
Mechanical properties	
Weight	Approx. 47 g

Table 100: 5AC901.LSD3-00 - Technical data

1) For detailed information, see the temperature tables in the user's manual.

4.2.13.3.3.1 SDL3 interface

The SDL3 interface is a female RJ45 connector and operated with SDL3 transmission technology.

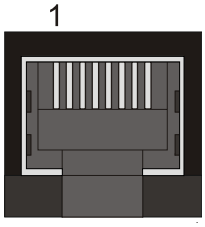
SDL3 interface		
The following shows an overview of the video signals possible on the SDL3 output.		RJ45 connector, female 1 
Monitor/Panel option	**Video signals**	
5AC901.LSD3-00	SDL3	

Table 101: SDL3 interface

Information:

Hot plugging display devices on the SDL3 interface for service purposes is supported by the hardware and graphic drivers of approved operating systems. The female RJ45 connector is specified for 500 mating cycles.

Information:

If a display device with touch screen is disconnected from and reconnected to the SDL3 interface during operation (hot plugging), it may be necessary to recalibrate the touch screen.

4.2.13.3.3.2 Cable lengths and resolutions for SDL3 transfer

The maximum cable length for SDL3 transfers is 100 m with a B&R SDL3/SDL4 cable (regardless of the panel resolution).