Which display modules are available?

- LOGO! Basic (integrated in base module)
- LOGO! TDE

Features of the LOGO! TDE

The LOGO! TDE is available for the 0BA8 series. It provides an additional display that is wider than the LOGO! Basic. It has four function keys that you can program in your circuit program as inputs. Like the LOGO! Basic, it has four cursor keys, an ESC key and an Enter key that you can also program in your circuit program and use for navigation on the LOGO! TDE.

You can create and download a power-up screen for the LOGO! TDE from LOGO!Soft Comfort. This screen displays briefly when you initially power on the LOGO! TDE. You can also upload the power-up screen from the LOGO! TDE to LOGO!Soft Comfort.

LOGO! TDE provides three main menu commands, respectively for the IP address selection of a Base Module, the remote settings of the connected Base Module, and the independent configuration of the LOGO! TDE. The menus for the LOGO! TDE are shown in Appendix "LOGO! TDE (Page 361)".

LOGO! TDE 6ED1055-4MH08-0BA1 and 6ED1055-4MH08-0BA0 can be scanned by LOGO!Soft Comfort V8.2 and later versions.

It's your choice

The various LOGO! Base Modules, expansion modules, LOGO! TDE and communications modules offer you a highly flexible and adaptive system to suit your specific tasks.

The LOGO! system offers you many solutions for small domestic installations, simple automation tasks, and even complex engineering tasks involving its integration into a bus system.

Note

You can only use expansion modules of the same voltage as the LOGO! Base Module. Mechanical encoding pins in the housing prevent you from connecting devices of a different voltage class.

Exception: The interface on the left side of an analog module or communications module is galvanically isolated. These types of expansion modules can therefore be connected to devices of a different voltage class (Page 32).

A LOGO! TDE has two Ethernet interfaces. You can connect each interface to a Base Module, a PC, or another LOGO! TDE.

Each LOGO! Base Module supports the following connections for the creation of the circuit program, regardless of the number of connected modules:

- Digital inputs I1 to I24
- Analog inputs AI1 to AI8
- Digital outputs Q1 to Q20
- Analog outputs AQ1 to AQ8

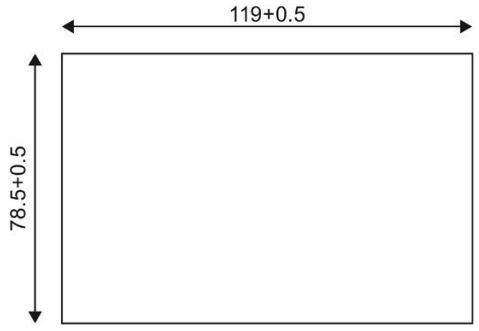
2.2.3 Mounting the LOGO! TDE

Note

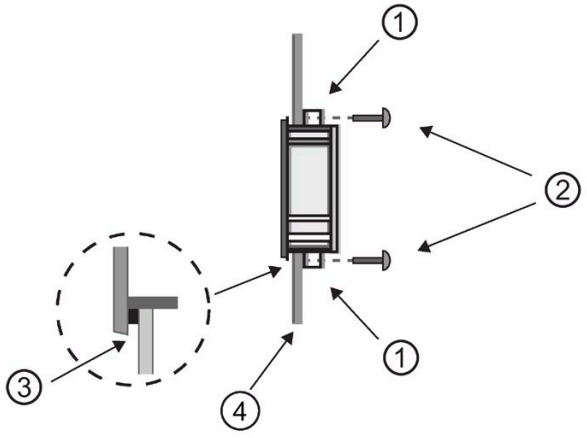
Make sure you mount the LOGO! TDE vertically on a flat surface of an IP 65 or Type 4X/12 enclosure.

To prepare the mounting surface for the optional LOGO! TDE and mount it, follow these steps:

1. Cut a 119 mm × 78.5 mm (tolerance: +0.5 mm) hole in the mounting surface.



2. Place the included gasket on the frontplate of the LOGO! TDE.
3. Fit the LOGO! TDE into the cutout you made in the mounting surface.
4. Attach the mounting brackets (included) to the LOGO! TDE.
5. Tighten the mounting screws on the mounting brackets to 0.2 Nm torque to secure the LOGO! TDE.



① Mounting brackets
② Mounting screws
③ Gasket
④ Cabinet door or control panel (Thickness: 1.5 mm to 4 mm)

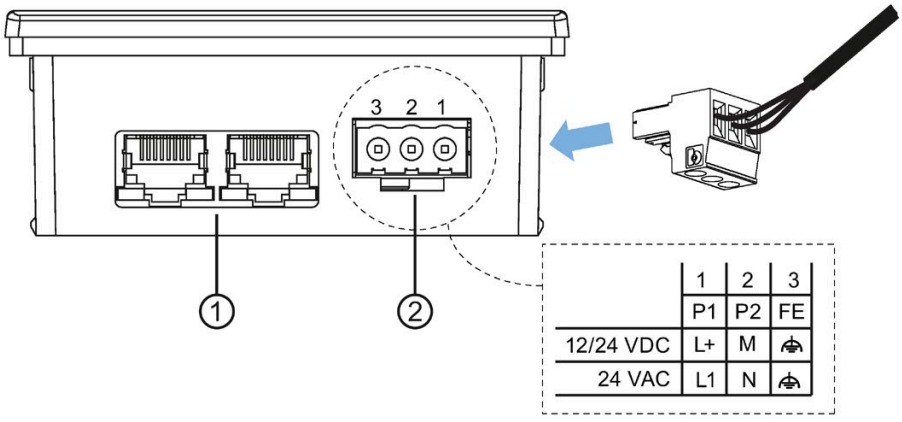
You can then connect the LOGO! TDE to the LOGO! Base Module through the Ethernet interface.

Circuit protection with DC voltage

To suppress voltage peaks on the power supply lines, install a protection device, for example DEHN (order number BVT AVD 24).

2.3.2 Connecting the LOGO! TDE power supply

You must connect the LOGO! TDE to an external power supply that supplies a voltage of 12 VDC or 24 VAC/VDC. The LOGO! TDE includes a power connector. Connect the power supply to the power connector then plug the power connector to the power supply interface on LOGO! TDE.



① Ethernet interfaces
② Power supply

- The power connection is non-polar. If you connect a DC power supply to the LOGO! TDE, you can connect the positive supply wire or negative supply wire to either pin 1 or pin 2.
- Pin 3 must be connected to the ground.

Note

Siemens recommends that you protect the LOGO! TDE with a 0.5 A safety fuse on the power supply.

2.3.3 Connecting LOGO! inputs

Requirements

At the inputs you connect sensor elements such as: momentary pushbuttons, switches, light barriers, daylight control switches etc.

A.15 Technical data: LOGO! Contact 24/230

LOGO! Contact 24 and LOGO! Contact 230 are switching modules for direct switching of ohmic loads up to 20 Amps and motors up to 4 kW (without noise emission, hum-free). Both modules have a built-in protective circuit for damping surges.

	LOGO! Contact 24	**LOGO! Contact 230**
Operating voltage	24 VDC	230 VAC; 50/60 Hz
Power consumption • 24 VDC • 230 VAC	 • 170 mA • - -	 • - - • 20 mA
Switching capacity		
Utilization category AC-1: Switching of ohmic loads at 55°C Operating current at 400 V Output with three-phase loads at 400 V	 20 A 13 kW	
Utilization category AC-2, AC-3: Motor with slip ring induction/cage armature Operating current at 400 V Output with three-phase loads at 400 V	 8.4 A 4 kW	
Short-circuit protection: Assignment type 1 Assignment type 2	 25 A 10 A	
Connecting leads	Fine-wire with wire end ferrules Solid wire 2 x (0.75 to 2.5) mm^2 2 x (1 to 2.5) mm^2 1 x 4 mm^2	
Dimensions (WxHxD)	36 x 72 x 55 mm	
Ambient temperature	-25 °C to +55 °C	
Storage temperature	-50 °C to +80 °C	

A.16 Technical data: LOGO! TDE (Text Display with Ethernet interfaces)

	LOGO! TDE
Mechanical data	
Keyboard Display	Membrane keypad with 10 keys FSTN-Graphic Display with 160 x 96 (columns x rows), LED backlight (white/amber/red)
Power supply	
Input voltage	24 VAC/VDC 12 VDC
Permissible range	20.4 VAC to 26.4 VAC 10.2 VDC to 28.8 VDC

	LOGO! TDE
Permissible mains frequency	47Hz to 63 Hz
Power consumption (Ethernet and white backlight active) • 12 VDC • 24 VDC • 24 VAC	 • Typ. 150 mA • Typ. 75 mA • Typ. 145 mA
Degree of protection	
	IP20 for LOGO! TDE excluding front panel IP65 for LOGO! TDE front panel
Communication port	
Ethernet performance	Two Ethernet interfaces with 10/100 M full/half duplex data transmission rate
Connection distance	Max. 30 m
LCD Display and Backlight	
Backlight lifetime [1]	20,000 hours
Display lifetime [2]	50,000 hours
Mounting	
Mounting hole dimensions (WxH)	(119 + 0.5 mm) x (78.5 + 0.5 mm)
Mounting conditions	Mount the LOGO! TDE vertically on a flat surface of an IP 65 or Type 4x/12 enclosure.

1) The backlight lifetime is when the final brightness is 50% of the original brightness.

2) The display lifetime is calculated under ordinary operating and storage conditions: room temperature (20 ± 8 °C), normal humidity below 65% relative humidity, and not in exposure to direct sunlight.

A.17 Technical data: LOGO! CSM12/24

The CSM12/24 is a communications switch module with Ethernet. It can support the current range of 12 VDC to 24 VDC.

	LOGO! CSM12/24
Ethernet interface	
Communications connector	4 x RJ45 jacks with MDI-X assignment 10/100 Mbps (half/full duplex), autopolarity, autonegotiation
Network cable	Use a shielded Ethernet cable to connect to the Ethernet interface. To minimize electromagnetic interference, make sure you use a standard Category 5 shielded twisted-pair Ethernet cable with a shielded RJ45 connector on each end.
Largest data packet	1518 byte
Smallest data packet	64 byte