LOGO! LOGIC MODULE

Familienbild - neue OBA3 Generation
LOGO!s schräg auf der Hutschiene
(Foto neue Broschüre Titel)

LOGO! is -
connecting functions – instead of wiring
LOGO! is similar to a PLC –
but without the math functions.
LOGO! is more than a PLC –
thanks to the integral HMI unit,
and the facility for making operator inputs direct at the device,
and the display of message texts/variables on the monitor.
LOGO! is an intelligent device –
with 10A outputs.

LOGO! is technology with a future! Technology that makes many things easier:

- **Simple operation** thanks to:
  Interconnection of functions at the click of a mouse on the PC, or the press of a key on the unit

- **Less time overhead** thanks to:
  Reduced wiring costs (input/output only),
  circuit diagram creation and switching cabinet installation in parallel

- **Reduced costs** thanks to:
  large number of integral switching and control functions

- **High degree of flexibility through:**
  Ease of function changing at the press of a key,
  different voltages available

Areas of application
LOGO! is universal!
Whether you're talking industry (e.g. controlling a stacker vehicle), utility building (e.g. blinds/light control), or domestic building (e.g. greenhouse shading, fan control) – LOGO! has already secured a place for itself in many applications.

Available from September 2001: The NEW LOGO! generation (0BA3)!! - LOGO! - NOW MODULAR!

From September, LOGO! will capture even more applications with the new generation. The new LOGO! family has a convincing **modular design concept**. Different expansion modules can be plugged into the available basic modules.

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Even more benefits with the new LOGO! generation:

- **Increased planning security and**
- **increased investment security thanks to**:

  a modular concept that can be expanded at any time
  Can be used in standard bus systems (LON, KNX (EIB)

LOGO! product description:
- Integral HMI unit
- 30 off-the-shelf functions integrated
  (8 basic functions, 22 special functions)
- Retentivity integrated
- Password protection (from 0BA3)
- Interface for expansion modules (from 0BA3)
- The following can be used in each switching program:
  Up to 56 function blocks
  Up to 8 bit memories
- A possible maximum option would be:
  16 timer functions; 24 counter functions; 8 time switches; 3 operating hours counters; 42 pulse relays; 42 latching relays; functions for analog value processing and message texts

New in the 0BA3 generation

- **User-friendly operation per software** – LOGO!Soft Comfort and PC cable
- **New basic units** (modular from 0BA3):
  8DI/4DO integrated
  of which 2 can be used as analog inputs on 12/24 V DC versions (0..10V – 10 bit resolution)
- **Digital/analog expansion modules** (from 0BA3)
- **Communication modules** (from 0BA3)

LOGO! modular photo – from last page of brochure

Integral functions:

Basic functions
- AND, OR, NOT, NAND, NOR, XOR, positive/negative edge evaluation

Special functions
- ON delay
- Latching ON delay
- OFF delay
- Pulse relay
- Latching relay
- Clock-pulse generator
- Counter (up/down)
- Time switch
- Interval time-delay relay
- Operating hours counter
- Threshold switch
- Asynchronous pulse encoder
- Year time switch
- Convenience light switch function
- Random generator
- Staircase lighting timer in accordance with DIN 18015-2
- Edge-triggered time-delay relay
- Combined input/output delay
- Analog comparator
- Analog threshold switch
- Text/variable display
- Softkey function (new in 0BA3!)

Accessories

Software photo	• **LOGO!Soft Comfort software** for LOGO! program creation using drag & drop on the PC (6 languages) Ger./Eng./Span./Ital./Port. also available as an upgrade
PC cable photo	• **PC cable** for transferring switching programs from a PC to LOGO! and vice versa
Program modules photo	• **Program modules**: Yellow: for copying Red: for know-how protection
LOGO!Contact photo	• LOGO!Contact: Switching module for direct switching of loads to 20 A and motors to 4 kW
LOGO!Prom photo New!	• LOGO!Prom: for writing (via PC) and copying (from a master module) to LOGO! program modules
LOGO!Installation Kit photo New!	• LOGO! installation kit: for front panel installation IP 30 without screen, IP 65 with screen
LOGO! Power photo	• LOGO!Power Power supply for converting the 120/230 V AC mains voltage to the 24 V or 12 V DC operating voltage (see also Catalog page .....(insert page!)

LOGO! 0BA3 technical specifications

LOGO! *without* display – basic units

LOGO!	12/24RCo	24RCo	230RCo
Supply voltage	12/24 V DC	24 V AC	115/230 V AC/DC
Inputs	8 (of which 2 can be used as analog)	8	8
Outputs	4 relays		
Continuous current	10A with resistive load; 3A with inductive load		
Short-circuit protection	External fusing required		
Integral time switches/reserve power	8/typ. 80 hours		
Ambient temperature	0 to +55°C		
RI suppression	In accordance with EN 55011 (limit class B)		
Degree of protection	IP20		
Certification	In accordance with VDE 0631, IEC1131, UL, FM, CSA, shipbuilding approvals		
Installation	On 35-mm DIN rail, 4 MODULE WIDTHS		
Dimensions	72 (4 module widths) x 90 x 55mm (WxHxD)		

LOGO! *with* display – basic units

LOGO!	24	12/24RC	24RC	230RC
Supply voltage	24 V DC	12/24 V DC	24 V AC	115/230 V AC/DC
Inputs	8 (of which 2 can be used as analog)	8 (of which 2 can be used as analog)	8	8
Outputs	4 transistors	4 relays		
Continuous current	0.3A	10A with resistive load; 3A with inductive load		
Short-circuit protection	Electrical 1A	External fusing required		
Integral time switches/reserve power	-	8/typ. 80 hours		
Ambient temperature	0 to +55°C			
RI suppression	In accordance with EN 55011 (limit class B)			
Degree of protection	IP20			
Certification	In accordance with VDE 0631, IEC1131, UL, FM, CSA, shipbuilding approvals			
Installation	On 35-mm DIN rail, 4 MODULE WIDTHS			
Dimensions	72 (4 module widths) x 90 x 55mm (WxHxD)			

LOGO! expansion modules

LOGO!	DM 8 24	DM8 12/24R	DM8 230R	AM2
Supply voltage	24 V DC	12/24 V DC	115/230 V AC/DC	12/24 V DC
Inputs	4DI	4DI	4DI	2AI
Outputs	4DO	4 relays	4 relays	-
Continuous current	0.3A	10A with resistive load; 3A with inductive load		-
Short-circuit protection	Electrical, 1A	External fusing required		
Ambient temperature	0 to +55°C			
RI suppression	In accordance with EN 55011 (limit class B)			
Degree of protection	IP20			
Certification	In accordance with VDE 0631, IEC1131, UL, FM, CSA, shipbuilding approvals			
Installation	On 35-mm DIN rail, 2 MODULE WIDTHS			
Dimensions	36 (2 module widths) x 90 x 55mm (WxHxD)			

LOGO! communication modules

LOGO!	AS-I	LON	KNX (EIB)
Supply voltage	12/24 V DC	24V AC/DC	24V AC/DC
Inputs/outputs	4/4	Max 16DI/8AI/12DO	Max 16DI/8AI/12DO
Ambient temperature	0 to +55°C		
RI suppression	In accordance with EN 55011 (limit class B)		
Degree of protection	IP20		
Certification	In accordance with VDE 0631, IEC1131, UL, FM, CSA		
Installation	On 35-mm DIN rail, 2 MODULE WIDTHS		
Dimensions	36 (2 module widths) x 90 x 55mm (WxHxD)		

LOGO! ordering data for basic, expansion and communication modules, accessories 0BA3 generation

Type	Order no.	Recom-mended net price in Euro, 1 unit	Recom-mended net price in DM, 1 unit
LOGO! 24	6ED1052-1CC00-0BA3	€99.00	DM193.63
LOGO! 12/24RC	6ED1052-1MD00-0BA3	€112.00	DM219.05
LOGO! 12/24RCo	6ED1052-2MD00-0BA3	€89.00	DM174.07
LOGO! 24RC (AC)	6ED1052-1HB00-0BA3	€112.00	DM219.05
LOGO! 24RCo (AC)	6ED1052-2HB00-0BA3	€89.00	DM174.07
LOGO! 230RC	6ED1052-1FB00-0BA3	€115.00	DM224.92
LOGO! 230RCo	6ED1052-2FB00-0BA3	€91.00	DM177.98
LOGO! DM8 24	6ED1055-1CB00-0BA0	€45.00	DM88.01
LOGO! DM 8 12/24R	6ED1055-1MB00-0BA0	€49.00	DM95.84
LOGO! DM8 230R	6ED1055-1FB00-0BA0	€49.00	DM95.84
LOGO! AM2	6ED1055-1MA00-0BA0	€74.00	DM144.73
LOGO! AS-i	3RK1400-0CE10-0AA2		
LOGO! LON			
LOGO! KNX (EIB)			
LOGO! manual	6ED1050-1AA00-0AE4	€11.00	DM21.51
LOGO! program module, yellow	6ED1056-1BA00-0AA0	€18.00	DM35.20
LOGO! program module, red	6ED1056-4BA00-0AA0	€18.00	DM35.20
LOGO!Soft Comfort V3.0	6ED1058-0BA00-0YC2	€49.00	DM95.84
LOGO!Soft Comfort Upgr.	6ED1058-0CA00-0YC1	€19.00	DM37.16
LOGO!PC cable	6ED1057-1AA00-0BA0	€75.00	DM146.69
LOGO!Contact 24V	6ED1057-4CA00-0AA0	€17.00	DM33.25
LOGO!Contact 230V	6ED1057-4EA00-0AA0	€14.00	DM27.38
LOGO! Prom	6AG1057-1AA01-0AA0	€326.00	DM637.60
LOGO! front panel installation	6AG1057-1AA00-0AA0	€28.00	DM54.76

From October 2001: LOGO! News Box – the full range!

The full range for first time users and users changing systems! In two different versions (12/24V and 230V DC).

Updated with the 0BA3 generation!

Contents:
- LOGO!230RC or 12/24RC
- LOGO!Manual
- LOGO!PC cable
- LOGO!Soft Comfort V3.0

and much more …

Type	Order no.	Recom-mended net price in Euro, 1 unit	Recom-mended net price in DM, 1 unit
LOGO! News Box 230V	6ED1057-3BA00-0AA2	€155.00	DM303.15
LOGO! News Box 12/24RC	6ED1057-3AA00-0AA7	€155.00	DM303.15

LOGO! 0BA3 generation

Photo 0BA2 family portrait

The predecessor LOGO! product family **0BA2** is still available.

In contrast to the 0BA3, this range comprises **compact devices** that are **not expandable**.

- LOGO!Basic: 6 or 8 inputs/4 outputs
- LOGO!Pure ("o"):   6 or 8 inputs/4 outputs, without display
- LOGO!Long ("L"):   12 inputs/8 outputs
- LOGO!Bus ("B11"): 12 inputs/8 outputs, AS-Interface slave
  (The brackets refer to the abbreviation used in the in the type code)

The technical specifications largely correspond to those of the 0BA3 generation.

LOGO! 0BA2 ordering data

Type	Order no.	Recommend ed net price in Euro, 1 unit	Recommend ed net price in DM, 1 unit
LOGO! 24	6ED1052-1CC00-0BA2	€102.00	DM199.49
LOGO! 24RC (AC)	6ED1052-1HB00-0BA2	€115.00	DM224.92
LOGO! 12/24 RC	6ED1052-1MD00-0BA2	€115.00	DM224.92
LOGO! 230RC	6ED1052-1FB00-0BA2	€118.00	DM230.79
LOGO! 24RCo (AC)	6ED1052-2HB00-0BA2	€92.00	DM179.94
LOGO! 12/24RCo	6ED1052-2MD00-0BA2	€92.00	DM179.94
LOGO! 230RCo	6ED1052-2FB00-0BA2	€94.00	DM183.85
LOGO! 12RC-L	6ED1053-1BB00-0BA2	€184.00	DM359.87
LOGO! 24L	6ED1053-1CA00-0BA2	€148.00	DM289.46
LOGO! 24RC-L	6ED1053-1HB00-0BA2	€167.00	DM326.62
LOGO! 230RC-L	6ED1053-1FB00-0BA2	€169.00	DM330.54
LOGO! 24RC-L-B11	6ED1053-1HH00-0BA2	€213.00	DM416.59
LOGO! 230RC-L-B11	6ED1053-1FH00-0BA2	€215.00	DM420.50
LOGO! manual 09/00	6ED1050-1AA00-0AE3	€11.00	DM21.51

Program modules, software and PC cable can be used by the 0BA3 generation!

SIPLUS additions LOGO! generation 0BA2

This product range has the same similiar technical data than the standard LOGO! 0BA2 generation, but with higher temperature range (-25 ... +70°C - Betauung zuläßig).

Bestelldaten SIPLUS additions 0BA2

Typ	Best.-Nr	UVP in Euro Netto, 1 Stück	UVP in DM Netto, 1 Stück
SIPLUS 24	6AG1052-1CC00-2XB2	233 Euro	DM455.71
SIPLUS 24RC (AC)	6AG1052-1HB00-2XB2	249 Euro	DM487.00
SIPLUS 12/24 RC	6AG1052-1MD00-2XB2	271 Euro	DM530.03
SIPLUS 230RC	6AG1052-1FB00-2XB2	253 Euro	DM494,82
SIPLUS 12RC-L	6AG1053-1BB00-2XB2	342 Euro	DM668.89
SIPLUS 24L	6AG1053-1CA00-2XB2	290 Euro	DM567.19
SIPLUS 24RC-L	6AG1053-1HB00-2XB2	341 Euro	DM666.94
SIPLUS 230RC-L	6AG1053-1FB00-2XB2	332 Euro	DM649.34

Program modules, software and PC cable can be used by the 0BA3 generation!