



Figure similar

LOGO! 12/24RCE, logic module, display PS/I/O: 12/24VDC/relay, 8 DI (4 AI)/4 DQ, memory 400 blocks, modular expandable, Ethernet, integrated web server, data log, user-defined web pages, standard microSD card for LOGO! Soft Comfort V8.3 or higher, older projects executable cloud connection in all LOGO! 8.3 basic units

General information

Product function
Protection function
Engineering with
Integrated drive control
Operating mode

Operator control and monitoring

Process images
User administration
Alarms
Recipes/user archives

Display

with display	Yes
Line display	
Resolution (pixels)	

Control elements

Input device
Keyboard fonts
Touch operation
Connection type
Special operator controls
Frame size/design
Ergonomics

Installation type/mounting

Mounting	on 35 mm DIN rail, 4 spacing units wide
----------	---

Supply voltage

Rated value (DC)	
• 12 V DC	Yes
• 24 V DC	Yes
permissible range, lower limit (DC)	10.8 V
permissible range, upper limit (DC)	28.8 V
Mains filter	
Mains buffering	
Load voltage L+	
Digital inputs	
Load voltage 1L+	

Load voltage 2L+	
Load voltage L1	
Auxiliary voltage 1L+, load voltage 2L+	
Input voltage	
Input voltage acc. to VDE	
Input voltage acc. to UL	
Line frequency	
Output current	
horizontal installation	
vertical installation	
Encoder supply	
Output current	
5 V encoder supply	
24 V encoder supply	
Additional 24 V encoder supply	
Memory	
Work memory	
Working memory for additional functions	
Battery	
Design	
CPU-blocks	
DB	
FB	
FC	
Counters, timers and their retentivity	
S7 counter	
IEC counter	
S7 times	
Data areas and their retentivity	
Flag	
Address area	
I/O address area	
of which distributed	
per integrated IO subsystem	
Process image	
Subprocess images	
Digital channels	
Analog channels	
Addressing volume	
Hardware configuration	
Formation of potential groups	
Module exchange	
Interface modules	
Number of DP masters	
Number of IO Controllers	
Number of operable FMs and CPs (recommended)	
Expansion modules	
Rack	
Submodules	
Selection of BaseUnit for connection variants	
PtP CM	
Time of day	
Clock	
Operating hours counter	
Time switching clocks	
• Number	400; Max. 400, function-specific
• Power reserve	480 h

Digital inputs		
Number of digital inputs	8; Of which 4 can be used in analog mode (0 to 10 V)	
Number of simultaneously controllable inputs		
all mounting positions		
horizontal installation		
Digital input functions, parameterizable		
Input voltage		
Input current		
for 10 k switched contact		
Internal preparation time		
Input delay (for rated value of input voltage)		
for standard inputs		
for interrupt inputs		
Encoder connection		
Connection method		
Digital outputs		
Number of digital outputs	4; Relays	
Short-circuit protection	No; external fusing necessary	
Digital output functions, parameterizable		
Control supply voltage		
Switching capacity of the outputs		
Load resistance range		
Trend key points E		
Output voltage		
Output current		
• for signal "1" permissible range for 0 to 55 °C, max.		10 A
Output delay with resistive load		
Parallel switching of two outputs		
Switching frequency		
Total current of the outputs		
horizontal installation		
Total current of the outputs (per group)		
all mounting positions		
horizontal installation		
vertical installation		
Total current of the outputs (per module)		
all mounting positions		
horizontal installation		
Pulse output (passive)		
Frequency output		
Relay outputs		
Switching capacity of contacts		
— with inductive load, max.		3 A
— with resistive load, max.		10 A
Integrated high-speed cams		
Analog inputs		
Input ranges		
Measuring range		
Input ranges (rated values), voltages		
Input ranges (rated values), currents		
Input ranges (rated values), thermocouples		
Input ranges (rated values), resistance thermometer		
Input ranges (rated values), resistors		
Input ranges (rated values), strain gauges (full bridges)		
Thermocouple (TC)		
Characteristic linearization		
Analog outputs		
Output ranges, voltage		

Output ranges, current
Connection of actuators
Load impedance (in rated range of output)
Analog value generation for the inputs
Integration and conversion time/resolution per channel
Analog value generation for the outputs
Integration and conversion time/resolution per channel
Encoder
Connection of signal encoders
Connectable encoders
Incremental encoder
Encoder signals, incremental encoder (symmetrical)
Encoder signals, incremental encoder (asymmetrical)
Encoder signals, absolute encoder (SSI)
Encoder signals, IEPE
Drive axis
EC motor
Errors/accuracies
Operational error limit in overall temperature range
Basic error limit (operational limit at 25 °C)
Power electronics
Control of heating elements
Load connection type
Setpoint input
Heating power
Interfaces
Video interfaces
Touch interfaces
MPI
PROFIBUS DP
PROFIBUS PA
Supports protocol for PROFINET IO
PROFINET functions
Industrial Ethernet
Point-to-point connection
Integrated protocol driver
Telegram length, max.
Transmission rate, 20 mA (TTY)
Transmission rate, RS 422/485
Transmission speed, RS 232
Signals
ET-Connection
EtherNet/IP
AS-Interface
WLAN
1. Interface
Interface types
Protocols
MPI
PROFIBUS DP master
Services
PROFIBUS DP slave
PROFINET IO Controller
Services
Update time for IRT
PROFINET IO Device
Services

PROFINET CBA
Open IE communication
CAN
BACnet
2. Interface
Interface types
Protocols
PROFIBUS DP master
Services
PROFIBUS DP slave
PROFINET IO Controller
Services
Update time for IRT
PROFINET IO Device
Services
PROFINET CBA
3. Interface
Interface types
Protocols
PROFIBUS DP master
Services
PROFIBUS DP slave
PROFINET IO Controller
PROFINET IO Device
Services
PROFINET CBA
4. Interface
Interface types
Protocols
PROFIBUS DP master
PROFINET IO Controller
Interface types
RJ 45 (Ethernet)
RS 232
RS 485
RS 422
USB port
Protocols
Protocols (USB)
Protocols (Ethernet)
WEB characteristics
Protocols (terminal link)
Number of connections
PROFINET IO Device
Redundancy mode
SIMATIC communication
EtherNet/IP
Services
Updating times
Redundancy mode
Open IE communication
Web server
PROFIBUS DP
PROFIdrive
DALI
Integrated protocols
Freeport
3964 (R)

OPC UA
Communication functions
Global data communication
S7 basic communication
S7 communication
LOGO! communication
S5 compatible communication
Standard communication (FMS)
PROFINET CBA (at set setpoint communication load)
Remote interconnections with acyclic transmission
Remote interconnections with cyclic transmission
iPAR server
Number of connections
Test commissioning functions
Status/control
Forcing
Diagnostic buffer
Interrupts/diagnostics/status information
Alarms
Integrated Functions
Monitoring functions
Safety monitoring functions
Counting functions
Load cell
Position detection
Control technology
Step-by-step controllers
Pulse generator
Measuring functions
Operating mode for measured value acquisition
Measuring range
Accuracy
Measuring inputs for voltage
Measuring inputs for current
Measuring inputs for current (Rog. or I/U converter)
Error limits
Counter
Counting mode
External gate counters
Counter input 5 V
Counter input 24 V
Drive interface
Signal Input
Potential separation
Potential separation digital inputs
Potential separation digital outputs
Potential separation analog inputs
Potential separation analog outputs
Potential separation channels
Potential separation valve outputs
Potential separation counter
Potential separation controller
EMC
Interference immunity against discharge of static electricity
Interference immunity against high-frequency electromagnetic fields
Interference immunity to cable-borne interference
Interference immunity against voltage surge

Interference immunity against conducted variable disturbance induced by high-frequency fields	
Interference immunity to magnetic fields	
Emission of radio interference acc. to EN 55 011	
<ul style="list-style-type: none"> Limit class B, for use in residential areas 	Yes; Radio interference suppression according to EN55011, Limit Value Class B
Emission of radio interference acc. to EN 55 022	
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
FM approval	Yes
developed in accordance with IEC 61131	Yes
according to VDE 0631	Yes
Marine approval	Yes
Highest safety class achievable in safety mode	
Highest safety class achievable for safety-related tripping of standard modules	
Highest safety class achievable for deactivated dark test	
Use in hazardous areas	
Ambient conditions	
Free fall	
Ambient temperature during operation	
<ul style="list-style-type: none"> min. max. 	-20 °C; No condensation 55 °C
Operation (vertical installation)	
Ambient temperature during storage/transportation	
<ul style="list-style-type: none"> min. max. 	-40 °C 70 °C
Air pressure acc. to IEC 60068-2-13	
Altitude during operation relating to sea level	
<ul style="list-style-type: none"> Ambient air temperature-barometric pressure-altitude 	Tmin ... Tmax at 1 080 hPa ... 795 hPa (-1 000 m ... +2 000 m)
Vibrations	
Shock testing	
Resistance	
Use on land craft, rail vehicles and special-purpose vehicles	
Fire resistance	
Pollutant concentrations	
Hardware requirement	
Processor	
Graphic	
Operating systems	
pre-installed operating system	
Runs under operating system	
Software	
Preinstalled	
Software functions	
Multi-user system	
Runtime software	
Runtime	
Block	
Adjustable parameters	
Configuration	
Configuration	
Configuration software	
Script languages (Runtime)	
Programming	
Programming language	
Configuration examples	

Software libraries	
Know-how protection	
Access protection	
Languages	
Online languages	
Functionality under WinCC (TIA Portal)	
Multiproject	
Message system	
Recipe management	
Variables	
Images	
Image objects	
Complex image objects	
Attributes for dynamic objects	
Lists	
Archiving	
Filters	
Security	
Data carrier support	
Logging through printer	
Character sets	
Transfer (upload/download)	
Process coupling	
Functions	
Functionality under WinCC Unified	
Parameter set management (recipes)	
Image objects	
Connection method	
ET-Connection	
Terminals	
Connection I/O signals	
Conductor cross-section in mm²	
Conductor cross-section acc. to AWG	
Dimensions	
Width	71.5 mm
Height	90 mm
Depth	60 mm
Other	
Data for selecting a voltage transformer	

last modified:

2/26/2021 