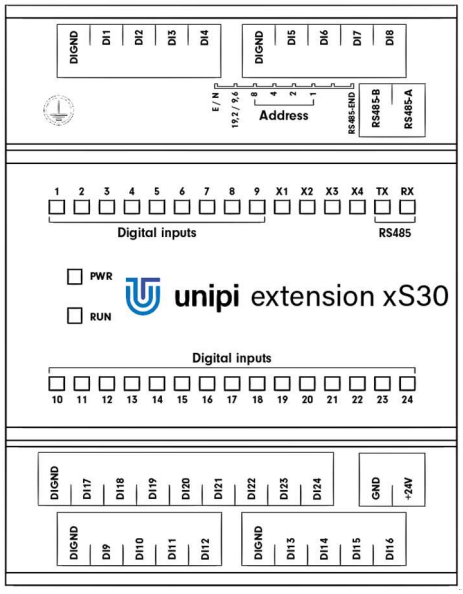
UniPi Extension xS30

Series	Digital inputs	Digital outputs	Relay outputs	Analog inputs	Analog outputs	Communication
xS30	24					RS485 Modbus RTU



Basic properties

- Power supply 24 V DC
- IO extension module with Modbus RTU communication protocol
- RS485 galvanically isolated serial interface
- Watchdog for monitoring running of the control system
- Direct Switch function
  - Rapid input response within the group – tens of µs
  - Available features: identity, negation, toggle
- Save and restore settings and fail-safe state of outputs to NVRAM and reload at startup
- Compact size and easy installation on DIN rail

Communication

Serial channels	1× RS485
Transmission speed RS485	9.6 .. 115 kbps
Galvanic isolation RS485	Yes

Digital inputs

Number of inputs × groups	8 × 1, 4 × 4
Common connector	DIGND
Galvanic isolation	Yes
Functions of inputs	Signalization, counter, Direct Switch
Operation range	5 – 40 V DC
Input voltage of log. 0	Max. 3,5 V DC
Input voltage of log. 1	Min. 5 V DC
Input resistance of log. 1	6 200Ω
Delay 0–>1/1–>0	20 µs / 60 µs

Dimensions and weight

Dimensions	72 × 90 × 59 mm
Weight	280 g

Power supply

Rated voltage - SELV	24 V DC
Voltage tolerance	–15% .. +25% 20,4 .. 30 V DC
Power consumption	Max. 0,8 W
Reverse polarity protection	Yes
Overvoltage protection	No

Installation and operating conditions

Operating temperature	0 °C .. + 55 °C
Storing temperature	-25 °C .. +70 °C
Dielectrical strength	In accordance with EN 60950
Degree of protection IP (IEC 529)	IP20
Operation position	Horizontal
Installation	On 35mm DIN rail into distribution box
Connection	Pluggable terminal blocks
Wire gauge	Max. 2,5 mm^2

Standards compliance

ČSN EN 6095-1 ed. 2
ČSN EN 61000-6-3 ed. 2
ČSN EN 55014-1 ed. 3
ČSN EN 55022 ed. 3
2006/95/EC
2004/108/ES
2014/35/EU
2014/30/EC