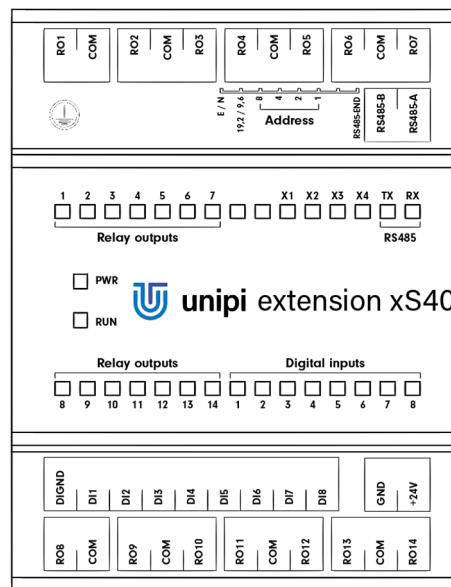


# Neuron Extension xS40

Series	Digital inputs	Digital outputs	Relay outputs	Analog inputs	Analog outputs	Communication
xS40	8		14			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  $\mu$ s
  - 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



## UniPi Neuron xS40

### Communication

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

### Digital inputs

Number of inputs × groups	8 × 1
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

### Relay outputs

Number of outputs × groups	2 × 6, 1 × 2
Galvanic isolation	Yes
Type of contact	Closing contact
Switchable voltage	250 V AC/30 V DC
Switchable current	5A
Short time overvoltage	5A
Current via common conn.	10A
Time to switch on/off	10ms
Mechanical lifetime	5 000 000
Electrical lifetime	100 000
Protection against shortage	No
Inductive load protection	External
Isolation voltage	4 000 V AC

### Dimensions and weight

Dimensions	72 × 90 × 59 mm
Weight	350 g

### Power supply

Rated voltage - SELV	24 V DC
Voltage tolerance	-15% .. +25% 20,4 .. 30 V DC
Power consumption	Max. 3,4 W
Reverse polarity protection	Yes
Overvoltage protection	No

### Provozní a instalační podmínky

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 <sup>2</sup>

### 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

