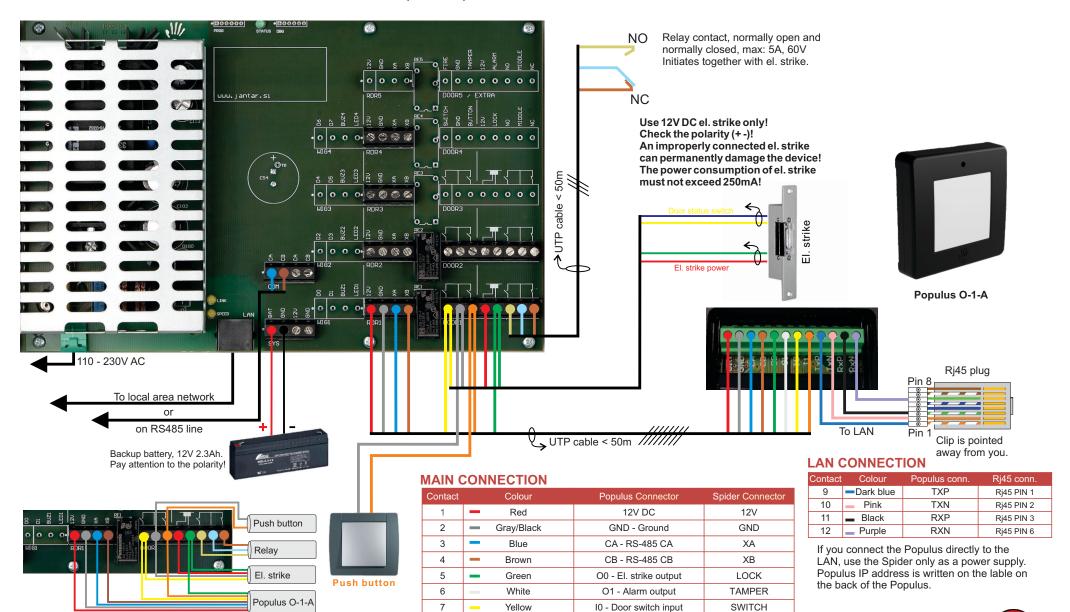# Wiring Diagram: Spider W40-B, Populus O-1-A

For connection use standard UTP cable. Cable length between devices must not exceed 50m. If cable length exceeds 25m, use one twisted pair (two wires) for each pole (+ and -).
To connect devices to the RS485 communication line, use terminals XA and XB. Spider and Spider W40-B have a direct connection from CA to XA and from CB to XB.

NO — Relay contact, normally open and normally closed, max: 5A, 60V Initiates together with el. strike.

NC

Use 12V DC el. strike only!
Check the polarity (+ -)!
An improperly connected el. strike can permanently damage the device!
The power consumption of el. strike must not exceed 250mA!

Door status switch
El. strike power
El. strike

Populus O-1-A

UTP cable < 50m

110 - 230V AC

To local area network
or
on RS485 line

Backup battery, 12V 2.3Ah. Pay attention to the polarity!

+ −

Push button
Relay
El. strike
Populus O-1-A

Push button

UTP cable < 50m

To LAN

Rj45 plug

Pin 8
Pin 1

Clip is pointed away from you.

MAIN CONNECTION

Contact	Colour	Populus Connector	Spider Connector
1	Red	12V DC	12V
2	Gray/Black	GND - Ground	GND
3	Blue	CA - RS-485 CA	XA
4	Brown	CB - RS-485 CB	XB
5	Green	O0 - El. strike output	LOCK
6	White	O1 - Alarm output	TAMPER
7	Yellow	I0 - Door switch input	SWITCH
8	Orange	I1 - Push button input	BUTTON

LAN CONNECTION

Contact	Colour	Populus conn.	Rj45 conn.
9	Dark blue	TXP	Rj45 PIN 1
10	Pink	TXN	Rj45 PIN 2
11	Black	RXP	Rj45 PIN 3
12	Purple	RXN	Rj45 PIN 6

If you connect the Populus directly to the LAN, use the Spider only as a power supply. Populus IP address is written on the lable on the back of the Populus.

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