

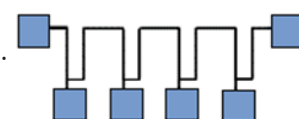
NOX SYSTEMS

Equipment Wiring Specifications

Signal	From	To	NOX Part no.	Gauge AWG/mm2	Cable type	Shielded	Max. Length
Ethernet	NOX CPU	LAN	N/A	Cat. 5 or better	Twisted Pair	Optional	90 m
RS-232	NOX ESP	Chiron Iris 4xx/8xx	NI47*	22/0.3255	Straight	Yes	15 m
RS-232	NOX ESP	Chiron Iris NG4xxx	NI47*	22/0.3255	Straight	No	15 m
RS-232	NOX ESP	NOX SMS	NI47*	22/0.3255	Straight	Yes	15 m
RS-485	NOX CPU	NOX Unit	NOXBUS X00LSZH**	24/0.2047	Twisted Pair	Optional	1200 m
RS-485	NOX Unit	NOX Unit	NOXBUS X00LSZH**	24/0.2047	Twisted Pair	Optional	1200 m
Wiegand	NOX CMU	Card Reader	ARASLS0H***	22/0.3255 20/0.5176	Straight	Yes	60 m**** 100 m**** EN Compliance max 30 m
Clock/Data	NOX CMI	Card Reader	ARASLS0H***	22/0.3255	Straight	No	3 m
OSDP	NOX CMO	Card Reader	NOXBUS X00LSZH**	24/0.2047	Twisted Pair	Optional	1200 m EN Compliance max 30 m
I/O	NOX Unit IO4/CMx/RE4/MIO & others	3 rd party detector or magnetic contact, etc.	N/A	24/0.2047 20/0.5176	Twisted Pair or Straight	No	30 m**** 100 m****
Lock	CMx	3 rd party locks and doorstrikes	N/A	24/0.2047 20/0.5176	Twisted Pair or Straight	No	30 m**** 100 m****

*) You need to state which transmission unit you intend to use (Iris 4xx/8xx, NG or SMS).

***) NOXBUS Cable is Low Smoke or Halogen free and is available in 100m or 500m configurations. The NOX BUS must be Daisy Chained from CPU to Unit and from Unit to Unit, and each end of the BUS must be terminated with a resistor of a value between 120 and 180 ohms.



Line (Daisy chain) RS-485 topology

****) Recommended reader cable is Low Smoke or Halogen free and is available in 100m or 500m configurations.

*****) Calculation based on initial voltage = 12V

All above mentioned cables are defined from “Best practice” principle, and are recommended.

You are free to use any other cable that complies with the above-mentioned specifications.