

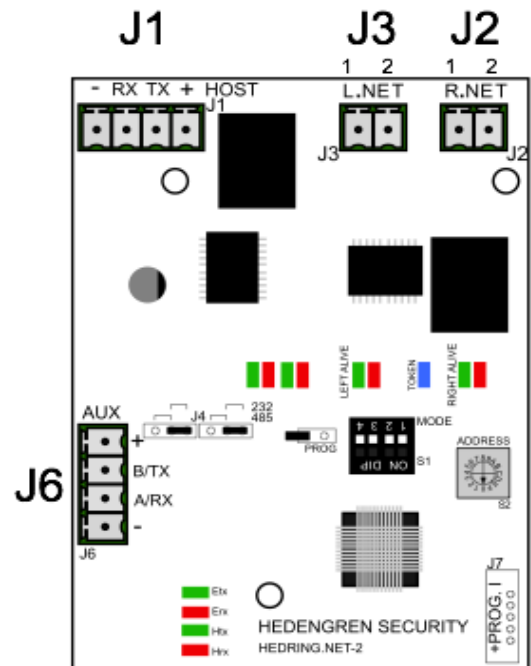
GENERAL

HEDRING.NET is used to network Prodex-Firescape panels as well as NEPTO-3K panels. The product needs no programming. The networking card allows a network consisting of 2-12 panels. The network uses two RS485 buses. The HOST-port connects to the control panel, while L.NET and R.NET connect the control panel with the next and previous control panels in the network. One extra Hedring.net card can be installed in one of the panels for programming the whole system from a single point and connection of Hedengren Device Server.

For more information see panel installation manual.

TECHNICAL DATA

	HEDRING.NET
Data	
Measurements [mm] (W x L x H)	61 x 83 x 22
Current consumption [mA] (24VDC)	40
Operating voltage [VDC]	8-40



SWITCH SETTINGS

Networked product	MODE (S1)				ADDRESS (S2)
	1	2	3	4	
Prodex Firescape	OFF	OFF	OFF	OFF	0
NEPTO-3K	ON	ON	OFF	OFF	0
HDS or extra card for programming Prodex Firescape	OFF	ON	OFF	OFF	E
HDS or extra card for programming NEPTO-3K	ON	ON	OFF	OFF	E
HHL-C	ON	ON	OFF	OFF	0

PRODEX-FIRESCAPE MAIN PCB SETTINGS

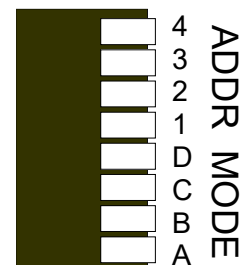
Set SER1 jumpers (JP4) to RS232 position

PRODEX-FIRESCAPE PANEL ADDRESS SETTINGS

Note! In NEPTO-3K panels the address is set with Nepto3K-install program.

Sub control panel no.	1	2	3	4	User panel displays address
Single control panel system	O	O	O	O	-
1	I	O	O	O	1
2	O	I	O	O	2
3	I	I	O	O	3
4	O	O	I	O	4
5	I	O	I	O	5
6	O	I	I	O	6
7	I	I	I	O	7
8	O	O	O	I	8
9	I	O	O	I	9
10	O	I	O	I	10
11	I	I	O	I	11
12	O	O	I	I	12

O = OFF, I = ON



CONNECTION

Card's HOST-port connects to the control panel's serial-port with the included cable.

The connector connection is dependent on the panel. Connect the supplied connector to the cable, see table below.

AUX-port to the control panel's PRG serial-port necessary accessories are included in the shipment.

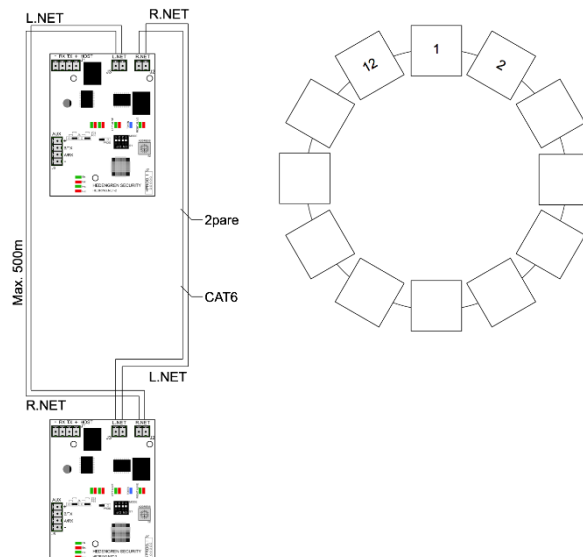
Function	Source			Target PRODEX-FIRESCAPE			Target NEPTO-3K			Target HHL-C			Mode
	Name	Conn.	Pins	Name	Conn.	Pins	Name	Conn.	Pins	Name	Conn.	Pins	
Networked control panel's serial port	HOST	J1	2(RX)	SER1	X8	3(RX)	Serial2	SER2	TX*	NET	NET	3(RX)	Normal
Networked control panel's serial port	HOST	J1	3(TX)	SER1	X8	4(TX)	Serial2	SER2	RX*	NET	NET	4(TX)	Normal
Input voltage (+)	HOST	J1	4(+)	SER1	X8	1(+)	Serial2	SER2	+	NET	NET	1(+)	Normal
Input voltage (-)	HOST	J1	1(-)	SER1	X8	2(-)	Serial2	SER2	-	NET	NET	2(-1)	Normal
Not in use (input voltage)	AUX	J6	4(+)										Programming
Not in use (input voltage)	AUX	J6	1(-)										Programming
Auxiliary device's serial port (RX)	AUX	J6	2 (RX)										Programming
Auxiliary device's serial port (TX)	AUX	J6	3(TX)										Programming
Next Hedring in network (A)	R.NET	J2	1(A)	L.NET	J3	1(A)	L.NET	J3	1(A)	L.NET	J3	1(A)	Normal
Next Hedring in network (B)	R.NET	J2	2(B)	L.NET	J3	2(B)	L.NET	J3	2(B)	L.NET	J3	2(B)	Normal
Previous Hedring in network (A)	L.NET	J3	1(A)	R.NET	J2	1(A)	R.NET	J2	1(A)	R.NET	J2	1(A)	Normal
Previous Hedring in network (B)	L.NET	J3	2(B)	R.NET	J2	2(B)	R.NET	J2	2(B)	R.NET	J2	2(B)	Normal

**Note! With NEPTO-3K the Host cable need to be changed, TX/RX are the opposite from default connected cable!*

NETWORKING

One Hedring-card is needed per control panel. Picture shows the cabling principles using L.NET and R.NET connectors. First card's R.NET is connected to next one's L.NET and so on. The network can contain a maximum of 12 control panels. The maximum distance between the control panels is 500 m. Thus the maximum length of the whole network is 6 kilometers. Cable type is CAT6 or equivalent, of which only one pair is used.

Cabling L.NET and R.NET is done using two separate cabling routes, according to the EN54.



LED FUNCTIONS

Leds			
Title	Color	Mode	Explanation
Left net (L.NET)	red	on	fault
Left net	green	on	ok
Right net (R.NET)	red	on	fault
Right net	green	on	ok
Token	blue	blinking	net message
Left serial traffic	red / green	blinking alternately	ok
Right serial traffic	red / green	blinking alternately	ok
AUX	red / green	blinking alternately *	ok
HOST	red / green	blinking alternately	ok

** If port is connected and in use*

NETWORKING WITH HEDENGREN DEVICE SERVER (HDS)

