

# Functionality

**Fiber Optic LIGHT ON/OFF mode button** – by pressing this button you can easily convert Fiber Optical channel from Light Off mode to Light On mode. The Light On mode is indicated by a Light On indicator. Fiber optic power can be measured in software.



Laser radiation hazard. Avoid eye exposure to direct or scattered radiation

**ISOLATE button** – (1) by pressing this button once you can isolate serial interface A side from B side. That means **THE VINCI EXPERT** works like protocol master / slave. Everything that comes to A side, comes out of A side and in reverse – what comes in B side, goes to B side.

(2) by holding this button for 4 seconds **THE VINCI EXPERT** resets to default settings. This means all previous settings, including software defined, will be set to defaults. When defaults is activated all buttons flashes clockwise once and power indication stays green. When custom configuration is applied through **THE VINCI SOFTWARE**, power indication stays red.

**RS485/422 button** - by pressing this button you can switch from RS485 to RS422 mode. When RS422 mode is activated it will be indicated by a RS485/422 indicator. Both interfaces supports baud rates up to 115200.

For custom settings configuration you can use **THE VINCI SOFTWARE**, which allows you to:

- Enable / disable Termination resistors
- Select termination resistor: 100 or 120 ohm.
- Invert Y Z lines; Invert A B lines;
- Enable / Disable Slew rate.\*

\*feature reduced slew-rate drivers that minimize EMI and reduce reflections caused by improperly terminated cables, allowing error-free data transmission up to 500kbps.

## RS485/422 pinout table:

RJ-45 PIN	Default	INVERTED	RS485 mode differential pair function	RS422 mode differential pair function
1	A	B	RX/TX	RX
2	B	A	RX/TX	RX
3	-	-	-	-
4	GND	GND	GND	-
5	GND	GND	GND	-
6	-	-	-	-
7	Y	Z	-	TX
8	Z	Y	-	TX

**RS232 NULL button** – by pressing this button you can easily switch to null modem cable mode. That means THE VINCI EXPERT automatically changes RX to TX and TX to RX without any additional cable or adapters. When null cable function is activated it will be indicated by a RS232 NULL indicator. If Custom pinout is configured through software, this button changes between custom and NULL pinouts.

For custom settings configuration you can use **THE VINCI SOFTWARE**, which allows you to:

- Select Custom pinout for A and B side
- Save/Load settings file in computer
- Full control of **THE VINCI EXPERT** settings.

## RS232 pinout table:

RJ-45 PIN	Custom MODE	Default MODE (DTE)	RS232 NULL MODE (DCE)
1	x	DCD (INPUT)	DCD (INPUT)

2	x	RX (INPUT)	TX (OUTPUT)
3	x	TX (OUTPUT)	RX (INPUT)
4	x	DTR (OUTPUT)	DSR (INPUT)
5	x	GND	GND
6	x	DSR (INPUT)	DTR (OUTPUT)
7	x	RTS (OUTPUT)	CTS (INPUT)
8	x	CTS (INPUT)	RTS (OUTPUT)

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