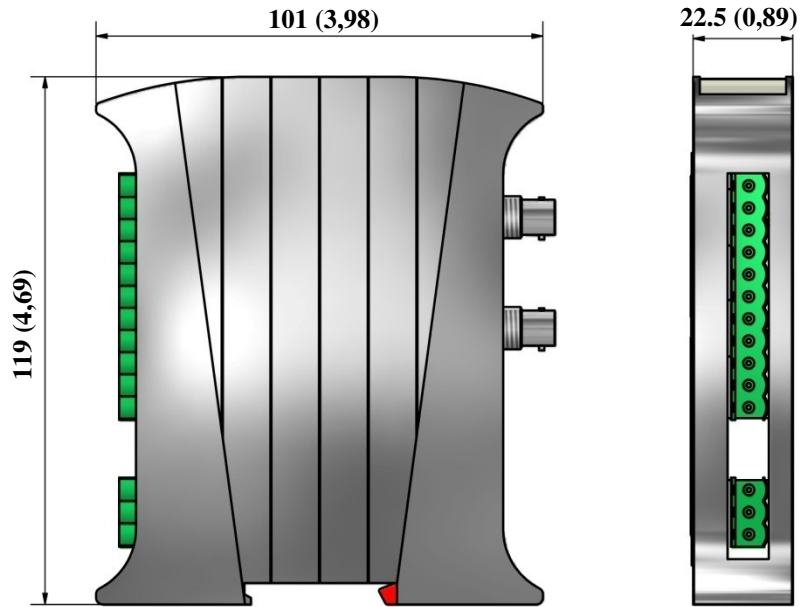


DINJB-RX-INC-E

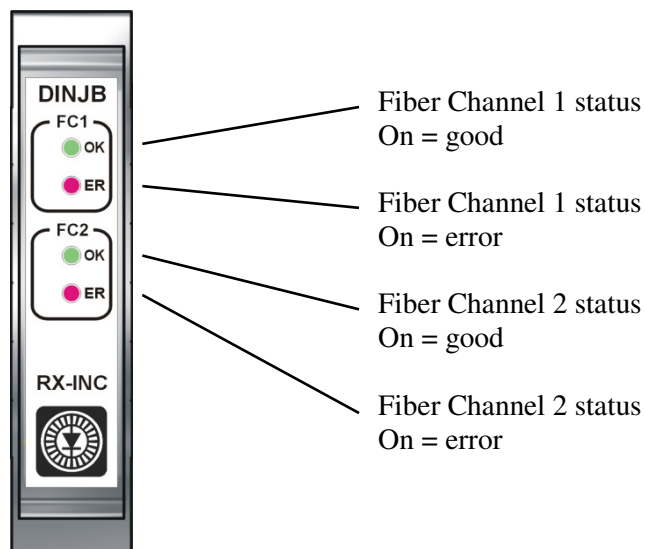


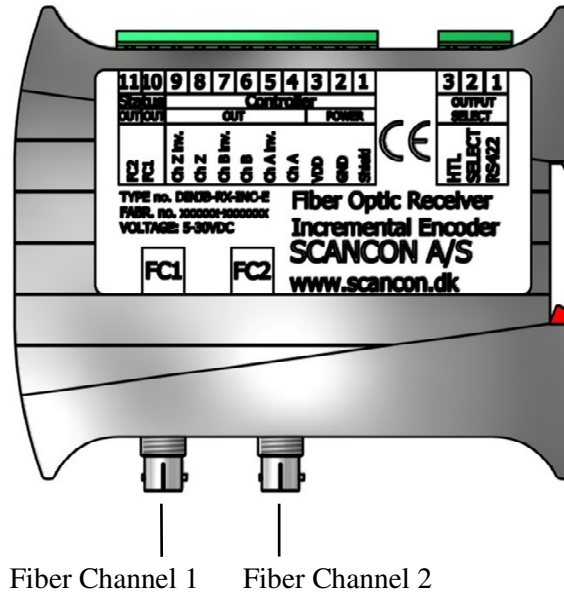
- Fiber Optic Transmission up to 2000 meters
- No Degradation of Encoder Signal from Electrical Disturbances
- High Encoder Frequency and Low Transmission Delay
- Added Safety by use of two Redundant Fibers
- Compatible with all Scancon Fiber Optic Transmitters for Incremental Encoders
- DIN Rail Mounting
- Enhanced version of DINJB-RX-INC

Electrical Specifications		Mechanical Specifications	
Supply Voltage	4,75V to 30V	Material	Box: UL94-V0 self extinguishing ABS Color: Anthracite Front and cover plates: Stainless steel
Current Consumption (typical, no load)	290 mA @ $V_{sup} = 5V$ 110 mA @ $V_{sup} = 15V$ 70 mA @ $V_{sup} = 30V$	Weight	Approx. 150 gr. (5,3 oz) including terminal block connector
Encoder Outputs	Differential outputs HTL and RS422 compatible HTL: $V_{high} \geq V_{sup} - 1,2V$ @ $I_{out} = -25 mA$ $V_{low} \leq 0,8V$ @ $I_{out} = 25 mA$	Dimensions	Approx. 101 x 119 x 22,5 mm (3,98 x 4,69 x 0,89 inches)
Status Outputs	Open collector – NPN type $V_{low} \leq 0,5V$ @ $I_{out} = 25 mA$	Mounting	DIN Rail Mounting in accordance with EN-50022 for 35mm. rails
Common Specifications with Transmitter		Environmental Specifications	
Update Rate	1,04 million updates / second ~ 0,96 $\mu sec.$ / update	Operating Temperature	-20° to +70° C
Transmission Delay	$\leq 3 \mu sec.$ Approx. 1 $\mu sec.$ delay must be added per 200 meters of fiber optic cable	Storage Temperature	-40° to +85° C
Optical Fiber Connectors	Standard ST Insertion loss $\leq 0,7 dB$ ($\leq 0,4 dB$ recommended)	Humidity	98 % RH without condensation
Recommended Optical Fiber	62,5 / 125 μm , multimode	Shock	100 G / 11 ms
Optical Wavelength	660 nm (Red) or 850 nm (Infrared)	Vibration	(10-2000 Hz) / 10 G
Transmission Distance	250 meters (Red Light) 1000 meters (Infrared Light) 2000 meters (Infrared Light) - Option	Bump	10 G - 16 ms (1000 x 3 axis)
		Enclosure Rating	IP 40
		Electromagnetic Compatibility (EMC)	EN 61000-6-2 : 2005 (industrial environments) EN 61000-6-3 : 2007 (residential, commercial, and light-industrial environments)

Mechanical Dimensions


Dimensions in mm (inches)

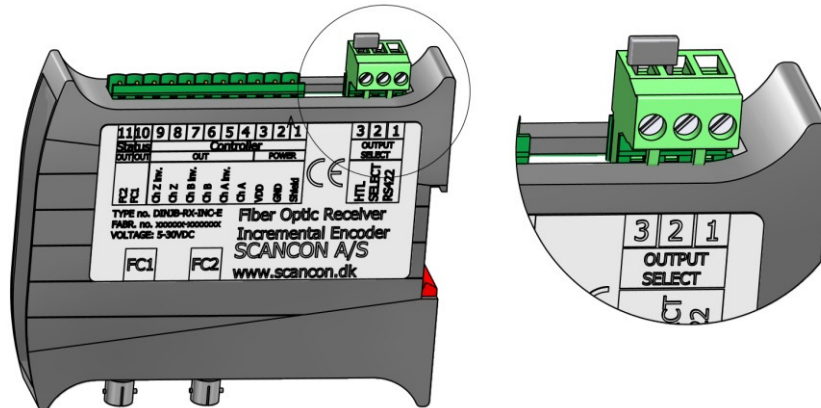
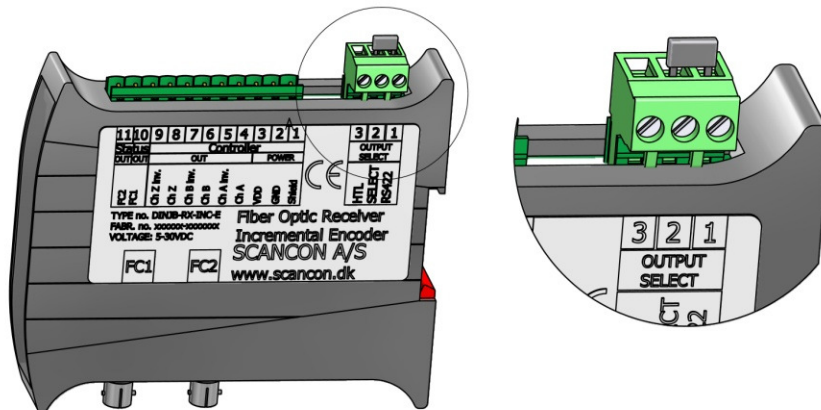
Front Panel Indicators


Connection


Terminal	Name	Type	Description
1	Shield	Shield	Cable shield
2	GND	Supply input	0V (GND) for Receiver
3	VDD	Supply input	Positive supply for Receiver
4	Ch A	Output	Channel A out
5	Ch A Inv.	Output	Channel A inverted out
6	Ch B	Output	Channel B out
7	Ch B Inv.	Output	Channel B inverted out
8	Ch Z	Output	Channel Z out
9	Ch Z Inv.	Output	Channel Z inverted out
10	FC1 Status	Output	Low for Fiber Channel 1 good High (floating) for error on Fiber Channel 1
11	FC2 Status	Output	Low for Fiber Channel 2 good High (floating) for error on Fiber Channel 2

Output Select

The output standard of the differential outputs can be selected to be either according to the **HTL** or the **RS422** standard by mounting a connection bridge on the Output Select terminal block. The **HTL** position is used if the high voltage on the outputs must follow the supply voltage (VDD). The **RS422** position is used if the high voltage on the outputs must follow the **RS422** standard regardless of the supply voltage.


 Connection bridge mounted for **HTL** standard

 Connection bridge mounted for **RS422** standard

If the supply voltage of the Receiver (VDD) is 5V it is optional whether the **HTL** or the **RS422** output standard is selected as the output standard will then be **RS422** regardless of the selection.

Note: The connection bridge must always be installed in either position for the outputs to function properly.

Warning: Do not connect any wires to the Output Select terminal block.

Ordering Code

DINJB – RX – INC – E