

# Z-PC LINE COMMUNICATION DEVICES

## Z107FO

Fiber Optic ↔ RS232 / RS485 serial converter



CE

**Power Supply**

**Serial ports :**

**Max Baud rate:**

**Max Distance:**

**Fiber Optic :**

**Operating Temperature:**

**Dimensions:**

12..40 Vdc or 12..28 Vac (50-60 Hz)

RS232 (DB9-F connector), RS485 IDC 10 connector or terminal blocks

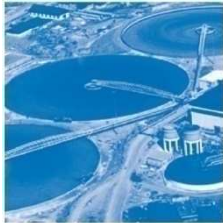
115.200 bps

2 km

Multimodal (62,5/125 o 50/125 μm), ST – ST connectors

-30..+60°C

17,5 x 100 x 112 mm (w x h x d)



➔ For further information, please visit [www.seneca.it](http://www.seneca.it)

# Z107FO

Fiber Optic ↔ RS232 | RS485 serial converter



## ORDER CODE

<b>Model</b>	<b>Z107FO</b>	Fiber Optic ↔ RS232 / RS485 serial converter
<b>Accessories</b>	<b>Z-PC FO</b>	Fiber Optic cable with ST/ST connectors, L=2 m
	<b>Z-PC DIN</b>	Backplane connectors

## TECHNICAL SPECIFICATIONS

### GENERAL FEATURES

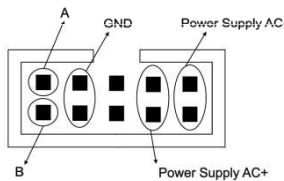
<b>Power Supply</b>	12..40 Vdc, 12..28 Vac (50-60 Hz)
<b>Consumption</b>	1,2 W
<b>Status indicators</b>	Serial communication state, fiber optic state
<b>Operating temperature</b>	-30..+60 °C
<b>Storage temperature</b>	-30..+85 °C
<b>Humidity</b>	30..90% not condensing
<b>Dimensions</b>	17,5 x 100 x 112 mm (w x h x d)
<b>Weight</b>	140 g
<b>Enclosure</b>	PBT, black
<b>Configuration</b>	DIP-switch (baud rate, parity, serial port, bit stop, termination)
<b>Conformity</b>	CE, EN 61000-6-4, EN 64000-6-2, EN 61010-1, EN 60742

### COMMUNICATION

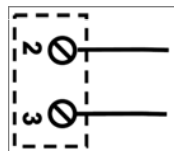
<b>RS232</b>	DB9-F (COM) connector
<b>RS485</b>	Screw terminal block, Back connectors IDC10 for DIN DB9-F (COM)
<b>Speed</b>	From 1.200 to 115.200 bps
<b>Delay</b>	160 – 240 ms (@ 9.600 bps) 145 – 155 ms (@ 115.200 bps)
<b>Fiber optic</b>	Multimodal(62,5/125 o 50/125 μm) ST/ST connectors

## CONNECTIONS

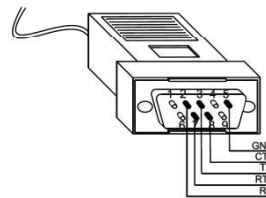
### Power supply (IDC10)



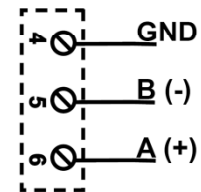
### Power Supply (Terminal block)



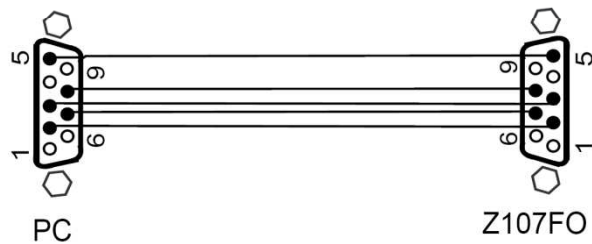
### RS232 port –DB9-F connector



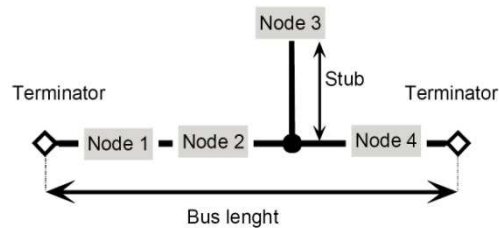
### RS485 port – Terminal block



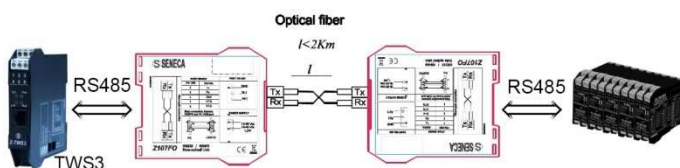
### DB9 PC connector → Z107FO



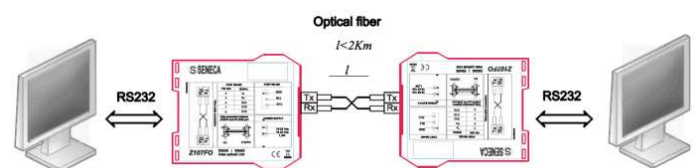
### Connection RS485 remote nodes depending on the baud rate



### Functional diagram



### Application example



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# Z-PC LINE COMMUNICATION DEVICES

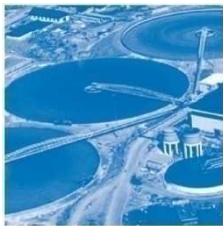
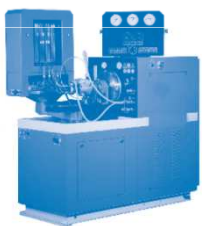
## ZC-107FO

Fiber Optic ↔ CAN bus converter



CE

<b>Power Supply</b>	12..40 Vdc or 12..28 Vac (50-60 Hz)
<b>CAN interface</b>	CANBUS 2.0 Protocol, max speed 1 Mbps, IDC 10 connector
<b>Fiber Optic</b>	Multimodal (62,5/125 o 50/125 $\mu$ m), ST – ST connectors
<b>Operating Temperature</b>	-30..+60°C
<b>Dimensions</b>	17,5 x 100 x 112 mm (w x h x d)
<b>Typical use</b>	Isolator, repeater and coupler for CAN buses



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# ZC-107FO

Fiber Optic ↔ CAN bus converter



## ORDER CODE

<b>Model</b>	<b>ZC-107FO</b>	Fiber Optic ↔ CAN serial converter
<b>Accessories</b>	<b>Z-PC-DINAL2-17.5</b>	Terminal block for power / bus + 2 slot
	<b>Z-PC-DIN2-17.5</b>	2 slot block 17.5 mm
	<b>Z-PC-DIN8-17.5</b>	8 slot block 17.5 mm

## TECHNICAL SPECIFICATION

### GENERAL FEATURES

<b>Power Supply</b>	12..40 Vdc, 12..28 Vac (50-60 Hz)
<b>Power consumption</b>	1,2 W
<b>Status indication</b>	State, communication, functioning
<b>Galvanic Isolation</b>	500 Vac input // power supply
<b>Operating temperature</b>	-30..+60 °C
<b>Storage Temperature</b>	-30..+85 °C
<b>Humidity</b>	30..90% non condensing
<b>Dimensions</b>	17,5 x 100 x 112 mm(w x h x d)
<b>Weight</b>	140 g
<b>Housing</b>	PBT, black color
<b>Mounting</b>	DIN 46277 guide
<b>Configuration</b>	Via DIP-switches (baud rate, parity, serial port, bit stop, termination)
<b>Conformity</b>	CE, EN 61000-6-4, EN 64000-6-2, EN 61010-1, EN 60742

### FIBER OPTIC

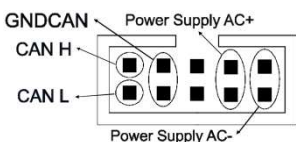
<b>Type</b>	Multimodal(62,5/125 o 50/125 μm)
<b>Connectors</b>	ST / ST Frontal connectors
<b>Delay message</b>	300 μs
<b>Max distance</b>	2 km

### CAN INTERFACE

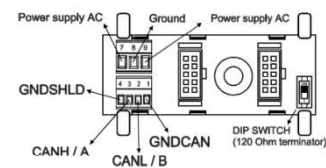
<b>Protocol</b>	CANBUS 2.0
<b>Max speed</b>	1 Mbps
<b>Terminals</b>	Screws, removables , 3 way, 5,08 mm
<b>Connectors</b>	IDC10 back connectors (Din guide)

## CONNECTIONS, INSTALLATION, LAYOUT

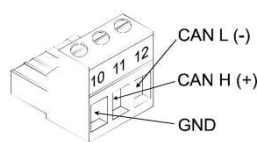
### Power supply by IDC10 back connector



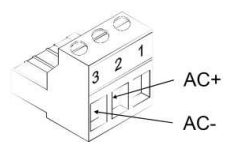
### Backplane for din guide



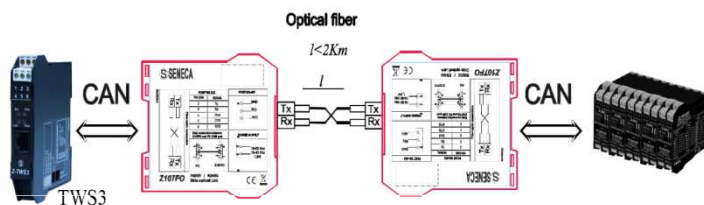
### CAN port



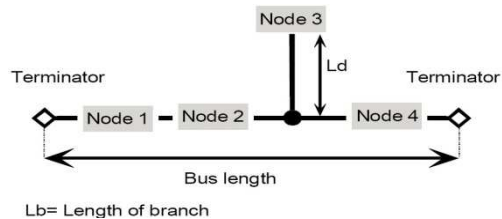
### Power through terminals



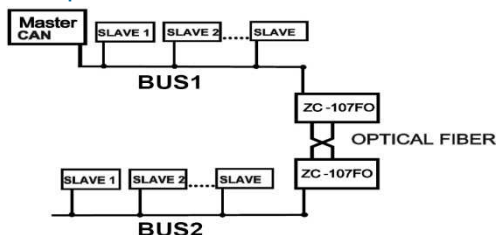
### Application example



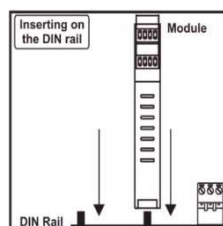
### CAN line



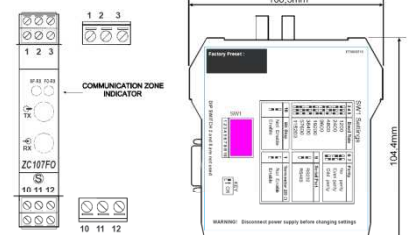
### Application example



### Mounting on DIN guide



### Layout



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