Fiber optic module converter

- EN54
- CE Approved according to CPD
- Single mode connection version or
- Multimode connection version

Optic fiber converter **Concufi** is a module that can adapts to industrial environments and related with fire detection equipment.

It allows **galvanic isolation** or extend the dialog links **distance** between 2 devices.

Concufi meets the requirements of quality and operational safety of SIL2 kind.

Concufi is suitable for **optical transmission** of information and integrates important patented innovations increasing the safety distance and **reliability** of long-distance transmission.

It can be used with SD3 Fire detection equipment such as **Héphaïs 1600** to **increase** the **length** of cabling for communication protocols such Loop network, Front panel, monitoring software and all communication working according to **RS232**, **RS422**, **RS485 protocol**.

Concufi exist in **Multimode** version, able to cover distances going up to 6 km and also in **Single mode** version with distance coverage up to 25km max



Main characteristics

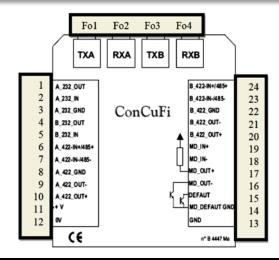
- Perfect immunity to electromagnetic disturbance
- Distance up to 6 Km in Multimode
- Distance up to 25 Km in Single mode
- Speed from 9600 to 115200bds
- Power supply from 7V to 60Vdc
- Hardware and software security (SIL2)
- Rail DIN installation (option)

	Power supply					
Input voltage	e 7 V DC to 60 V DC (protected against polarity inversions and overvoltage)					
	Max = 35mA (24V)-80mA(10V)-20mA(60V)					
Current consumption	Maximum current on the most unfavorable cases (rates higher than 115200 bds)					
Electrical interface						
	RS232 (Rx/Tx)					
Connectors for part A or B of Concufi	RS422 (In+, In-, Out+, Out-)					
	RS485 (InOut+, InOut-)					
Fault output	Open collector type linked to the ground through DEFAUT-OUT (Vmax 50V Imax 4.5 mA)					
Backup mode input	MD_INT+, MD_INT-, GND					
	Connect according to the device connection diagram					
Configuration						
	RS232 1 bit start, 8 data, 1 stop					
	RS422 1 bit, 8 data, 1 stop					
Switch configuration	RS485 1 bit start, 9 data, 1 stop					
	Mode MIX : in mode MIX the part B can only be in RS232 or RS422 mode					
	Speed:9600, 19200, 38400, 115200 bds (*)					
Optic fiber						
Wave lenght	1300 nm					
	Optic fiber MULTIMODE					
Type	Duplex 50/125 μm or 62.5/125μm connection with connector ST					
Type	Optic fiber Monomode					
	Duplex 9/125*m connection with connector ST					
Specificity	Multimode attenuation < from 0.5 to 1 db/km					
Automatic detection of fiber fault	Optical attenuation detection max from 5 to 6 db					
	General specifications					
Operating temperature	0°C to 50°C					
Storing temperature	emperature -10°C to +60°C					
Humidity	<93%					
Dimensions 120mmx120mmx22mm						





Fiber optic module converter



Pin name	Pin num	ConCuFi part A or B	Туре	Description
A_232_OUT	1	Α	RS232	Output Tx RS232
A_232_IN	2	Α		Input Rx RS232
A_232_GND	3	A/B	Ground RS	Common RS232
B_232_OUT	4	В	RS232	Output Tx RS232
B_232_IN	5	В		Input Rx RS232
A_422_IN+/485+	6	Α	RS422 or	Input IN+ RS422 or Input/output + RS485
A_422_IN-/485-	7	Α	RS485	Input IN- RS422 or Input/output - RS485
A_422_GND	8	Α	Ground RS	Common RS422 or RS485
B_422_OUT-	9	Α	RS422	Output - RS422
B_422_OUT+	10	В		Output + RS422
+V	11	A/B	+ power supply	Power supply from 7 to 60 Volts
0V	12	A/B	- power supply	Power supply 0V
GND	13	A/B		Ground board
MD_DEFAUT_GND	14	A/B	Com. OC	Open collector Common DEFAUT and MD_OUT-
DEFAUT	15	A/B	OC	Open collector fault indication
MD_OUT-	16	A/B	OC	Backup mode Output
MD_OUT+	17	A/B	Output	Backup mode Output +
MD_IN-	18	A/B	Input +	Backup mode Input -
MD_IN+	19	A/B	Input -	Backup mode Input +
B_422_OUT+	20	В	RS422	Output + RS422
B_422_OUT-	21	В		Output - RS422
B_422_GND	22	В	Ground RS	Common RS422 or RS485
A_422_IN-/485-	23	A	RS422 or	Input IN- RS422 or Input/output - RS485
A_422_IN+/485+	24	Α	RS485	Input IN+ RS422 or Input/output + RS485
RXA	Fo1	A/B	Optic fiber RX	In MIX mode: receives optical signals. For the
				outputs A, B and MD
				In standard mode: Receives the optical signals the
				output A
TXA	Fo2	A/B	Optic fiber TRX	MIX mode: Transmit Optic signal from A, backup
				mode
				Standard mode: Transmit optic signal from A,
DVD	F-0	D	Ontin fill DV	backup mode
RXB	Fo3	В	Optic fibber RX	Receives the optical signals the output B
TXB	Fo4	В	Optic fibber	Transmit the optical signals coming from inputs A
			TRX	and backup mode

REFERENCE CONCUFI SMODE **DESCRITPION**

CONCUFI

CONVERTER MODULE RS422/RS232/RS485 to SINGLE MODE optic fiber max distance 25km, rail din enclosure, 7Vdc to 60Vdc power CONVERTER MODULE RS422/RS485/RS232 to MULTIMODE optic fiber max distance 6km, rail din enclosure, 7Vdc to 60Vdc power

