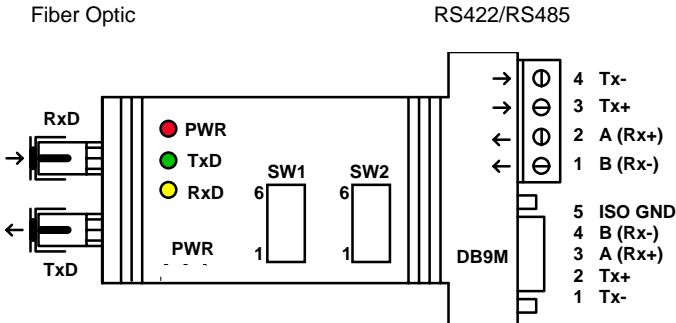


MINI 7.0/485

RS422/RS485 – Fiber Optic

LAYOUT OF SWITCHES AND CONNECTORS



- mode RS422 Full Duplex - Tx+, Tx-, Rx+, Rx-
- mode RS485 Half Duplex - A, B

STANDARD SETTING

mode
enable RS485/422 control
transmitter control
transmission to fiber optic
terminator
Fiber Optic receiver
Fiber Optic transmitter
hold line (pull-up, down)

RS485 – Half Duplex
enabled
by signal TxD
without echo
120 Ω
normal
normal
connected

TECHNICAL DATA

maximal transfer rate	5 Mb/s
maximal line length	1 700 m / 62.5um / ST
terminator	120Ω
connector RS485/422	DB9M + plug in with screw
connector fiber optic	ST (SMA, SC, FC)
transfer mode	half duplex - RS485 full duplex - RS422 "controlled RS422" "4 - wire RS485"
galvanic separation - RS485/422 side	1 kV
number of channels	1
overvoltage (soft) protection - RS485/422 side	600W/1ms
overvoltage (soft) protection - power supply	600W/1ms
optical indication (LED)	red PWR yellow RxD green TxD
indication of interrupted fiber optic	permanent yellow LED
IP	IP 30
weight	0.15 kg
power supply	9-30V DC
power consumption	max 1.1 W
dimensions (l x h x b)	82 x 20 x 43 mm

SELECTION OF OPERATING MODES

	POSITION	MODE	FUNCTION
SW1	1 OFF	transmitter control enable	enabled
	1 ON	for RS485/422	third state
	2 OFF	RS422 *	mode RS422
	2 ON	RS485 – Half Duplex	mode RS485
	3 OFF	transmitter control	signal TxD
	3 ON		permanent
	4 OFF	transmission to Fiber Optic	permanent + echo
	4 ON		without echo
	5 OFF	Fiber Optic receiver	normal
	5 ON		invert
	6 OFF	Fiber Optic transmitter	normal
	6 ON		invert
SW2	1 OFF	terminator for receiver	-
	1 ON		120 Ohm
	2 OFF	hold line for receiver -	disconnected
	2 ON	- pull down	connected
	3 OFF	hold line for receiver -	disconnected
	3 ON	- pull up	connected
	4 OFF	RS422 - terminator	-
	4 ON	for transmitter	120 Ohm
	5 OFF	hold line for transmitter -	disconnected
	5 ON	- pull up - RS422 only	connected
	6 OFF	hold line for transmitter -	disconnected
	6 ON	- pull down - RS422 only	connected

* for mode RS422 Full Duplex is necessary set SW1 position 4 to OFF – transmission to Fiber Optic permanent + echo