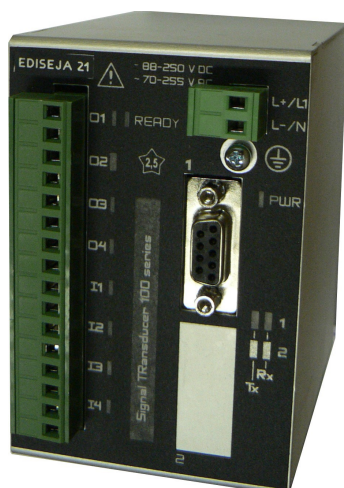


STR 100 - 4 CHANNEL SIGNAL TRANSDUCER

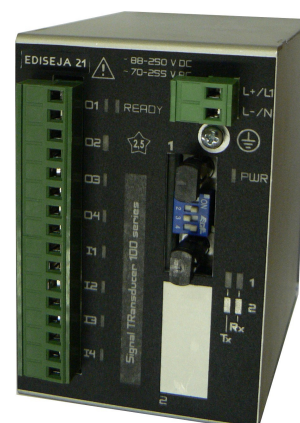
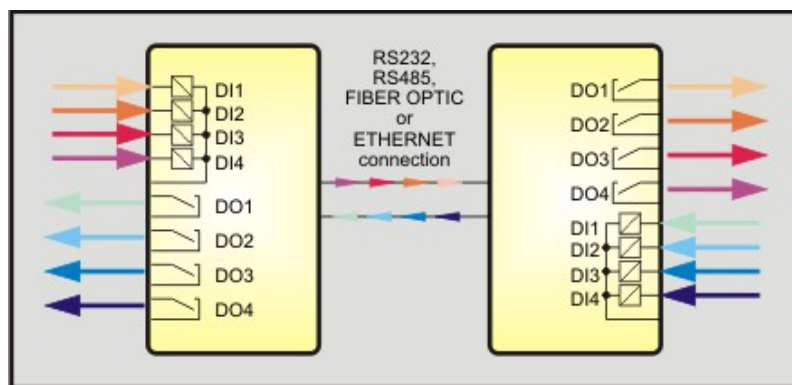


DESCRIPTION:

STR 100 system is modular system of communication devices that can be used for various of tasks such as:

- ◆ Distance protection criteria transfer
- ◆ Disconnecter and circuit breaker statuses transfer between substations
- ◆ Signal transfer via communication through noisy industrial enviroment
- ◆ Status and command transfer for the remote switch

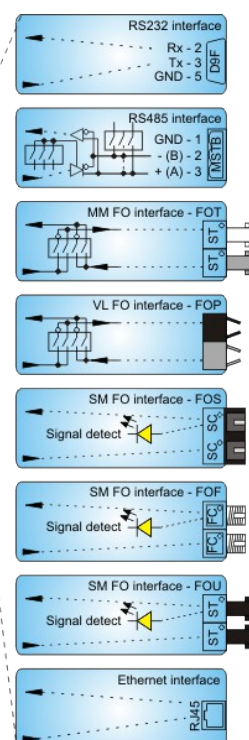
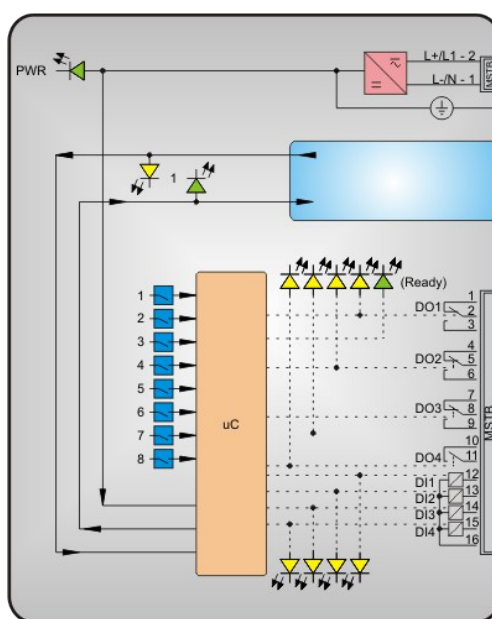
OPERATION BLOCK SCHEMATIC:



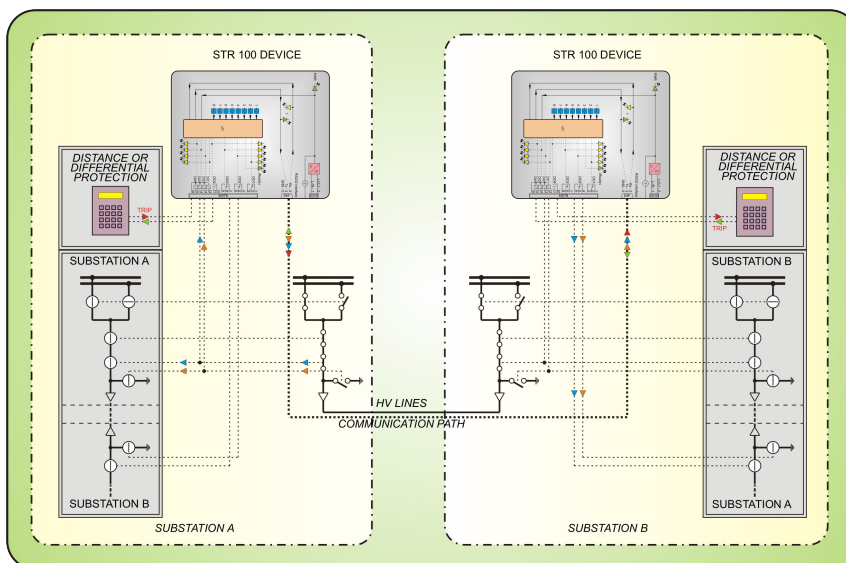
FEATURES

- ◆ Power supply and digital input voltage intended for substation power voltages:
 - ◆ 220 V DC
 - ◆ 110 V DC
 - ◆ 48 V DC
 - ◆ 24 V DC
- ◆ DIN 35 rail mount
- ◆ Aluminum housing
- ◆ 4 digital inputs
- ◆ 4 digital outputs
- ◆ Short transition time
- ◆ Communication:
 - ◆ RS232
 - ◆ RS485 (isolated)
 - ◆ Multimode Fiber Optic glass cable (820 nm)
 - ◆ Multimode Fiber Optic plastic cable (600 nm)
 - ◆ Singlemode Fiber Optic glass cable (1310 nm, 20 km)
 - ◆ 10/100Base-Tx ethernet

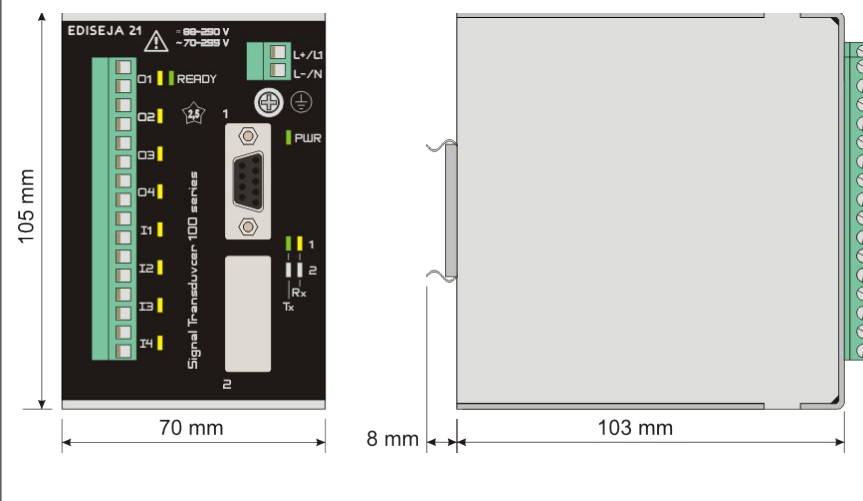
BLOCK SCHEMATIC



TYPICAL APPLICATION:



DIMENSIONS:



TECHNICAL DATA:

- ◆ Power supply rated voltage:
 - ◆ 110-220 V DC, 230 V AC
 - ◆ 48 V - 60 V DC, 48 V AC
 - ◆ 24 V DC
- ◆ Transition time - serial connection: 7 - 110 ms; ethernet connection: depends on network latency (real life application approx. 40 ms)
- ◆ Digital inputs:
 - ◆ DC voltage (+/- 20%): 24 V, 48 V, 110 V, 220 V
 - ◆ Current: 1 mA
- ◆ Digital outputs:
 - ◆ AC: 440 V max, 5 A at 250 V
 - ◆ DC: 5 A at 32 V, 1,3 A at 48 V, 0,4 A at 110 V, 0,35 A at 220 V

ORDERING NUMBER:

Power supply:

110 - 250 V DC or 230 V AC.....	HI
48 - 60 V DC or 48 V AC	MD
24 V DC	LO

Interfaces:

none (mark second interf. with „NON“ in case that second interf. is not needed)	NON
RS232 (15 m)	232
RS485 isolated, half duplex (1200 m, 19200 - 115200 BAUD)	485
RS485 isolated, half duplex (1200 m, 4800 - 38400 BAUD)	48M
RS485 isolated, half duplex (1200 m, 300 - 2400 BAUD)	48L
Versatile (650 nm) fiber optic for 1 mm plastic connector (~110 m)	FOP
Multimode (820 nm) fiber optic with ST connector (~2000 m)	FOT
Singlemode (1310 nm) fiber optic with SC connector (~20 km)	FOS
Singlemode (1310 nm) fiber optic with FC connector (~20 km)	FOF
Singlemode (1310 nm) fiber optic with ST connector (~20 km)	FOU
10/100Base-Tx (Ethernet)	ETH

Digital input & output:

4 DI (24 V DC), 4 DO (250 V AC, 5 A)	IOL
4 DI (48 V DC), 4 DO (250 V AC, 5 A)	IO4
4 DI (110 V DC), 4 DO (250 V AC, 5 A)	IO1
4 DI (220 V DC), 4 DO (250 V AC, 5 A)	IO2
4 DI (24 V DC), 3 + 1 ready DO (250 V AC, 5 A).....	IOLR
4 DI (48 V DC), 3 + 1 ready DO (250 V AC, 5 A).....	IO4R
4 DI (110 V DC), 3 + 1 ready DO (250 V AC, 5 A)	IO1R
4 DI (220 V DC), 3 + 1 ready DO (250 V AC, 5 A)	IO2R

STR 100 / ☐ . ☐ . ☐ . ☐