Digital, data and CC fiber optic multiplexer

APP D300

The devices of APP D300 series enables fully transparent, two-way RS-422/485 data transmission in accordance with V.11 recommendation, up to 215 kbps as well as 6 two-way contact closure signals through fiber optic.

The devices come in multi-mode as well as single-mode versions enable transmission in 1300 and 1550 nm windows through 1 or 2 fibers.

The APP D300 is equipped with 10-position dip switch enables to match the device with RS-485 data bus or to choose RS-422 work mode.

Optical fiber, as a transmission medium, enable galvanic separation between data transmission systems. The solution protect the systems against influence of stray current, charge transmitting as result a difference of potentials or strong electromagnetic disturbances.

The devices are offered as a cards mounted in 19” racks or as a stand-alone devices make them possible to applicate on DIN TS-35 rail.

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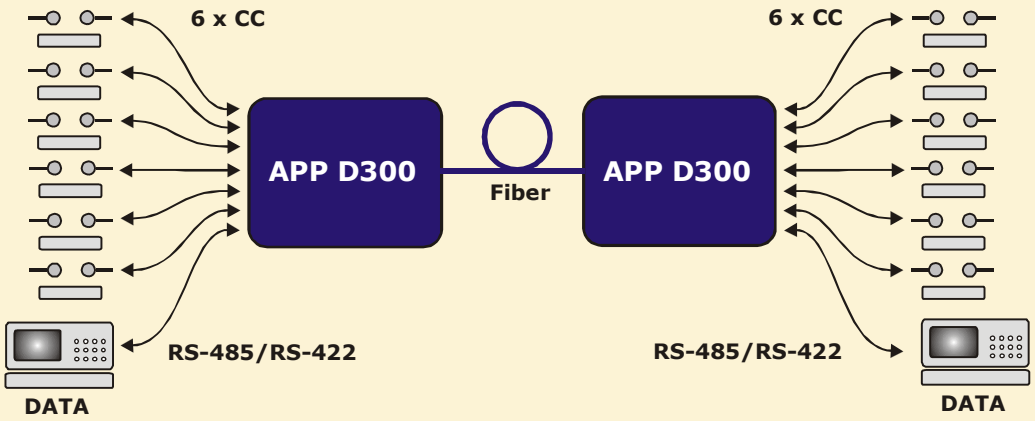
- **digital transmission**
- **RS-422/485 data**
- **6 two-way CC signals**
- **1 or 2 MM or SM fibers**
- **DIN TS-35 rail assembly**

Application diagram:



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APP D300

Technical parameters:

V.11 interface:

number of channels:	1 two-way
data format:	asynchronous, serial (oversampling 1,56 MHz clock)
electrical interface:	V.11, transparent
data rate:	215 kbps

CC (contact closure) interface:

number of channels:	6 two-way
input electrical interface:	+ 3,3 V pull-up 10 kΩ
output electrical interface:	photovoltaic relay DC 500 mA

Optical interface:

optical medium:	50/125 μm, 62,5/125 μm, 9/125 μm
wavelength:	1310/1550 nm
connector type:	SC
bit rate:	12,5 Mbps

Operating temperature range: 0 to + 55 °C

Power supply: 8 - 48 VDC

Dimensions: 100 x 100 x 25 mm

Housing: clear anodised aluminium

Device versions:

Multi-mode system (MM)			
APP D300	1 x D ↔ , 6 x CC ↔	LD/PIN 1310 nm, 2 x MM	up to 5 km
APP D300TRM*	1 x D ↔ , 6 x CC ↔	LD/PIN 1310 nm, 2 x MM	up to 5 km
APP D300	1 x D ↔ , 6 x CC ↔	LD/PIN 1310/1550 nm, 1 x MM	up to 5 km
APP D300	1 x D ↔ , 6 x CC ↔	LD/PIN 1550/1310 nm, 1 x MM	up to 5 km
APP D300TRM*	1 x D ↔ , 6 x CC ↔	LD/PIN 1310/1550 nm, 1 x MM	up to 5 km
APP D300TRM*	1 x D ↔ , 6 x CC ↔	LD/PIN 1550/1310 nm, 1 x MM	up to 5 km
Single-mode system (SM)			
APP D300	1 x D ↔ , 6 x CC ↔	LD/PIN 1310 nm, 2 x SM	up to 15, 25, 40, 60 km
APP D300TRM*	1 x D ↔ , 6 x CC ↔	LD/PIN 1310 nm, 2 x SM	up to 15, 25, 40, 60 km
APP D300	1 x D ↔ , 6 x CC ↔	LD/PIN 1310/1550 nm, 1 x SM	up to 15, 25, 40, 60 km
APP D300	1 x D ↔ , 6 x CC ↔	LD/PIN 1550/1310 nm, 1 x SM	up to 15, 25, 40, 60 km
APP D300TRM*	1 x D ↔ , 6 x CC ↔	LD/PIN 1310/1550 nm, 1 x SM	up to 15, 25, 40, 60 km
APP D300TRM*	1 x D ↔ , 6 x CC ↔	LD/PIN 1550/1310 nm, 1 x SM	up to 15, 25, 40, 60 km

* - module to APP DR10 rack

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