

deciPak Isolated Serial Communication Interface (SCI)



- available in DC or AC powered versions
- RS232/485 isolation
- high speed -120Kb/s
- jumper configurable for DTE, DCE, half or full duplex
- jumpers accessible from front of unit
- convenient connections - RS232 through 9 way D-sub connector, RS485 and power through screw terminals
- RS485 termination resistors socket mounted and accessible from front
- input and output are surge protected
- controlled driver voltage slew
- RS485 short circuit protected and fail safe
- CSA approved

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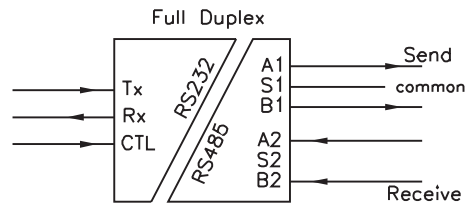
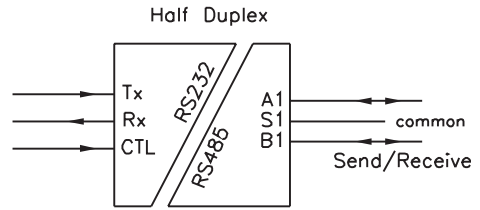
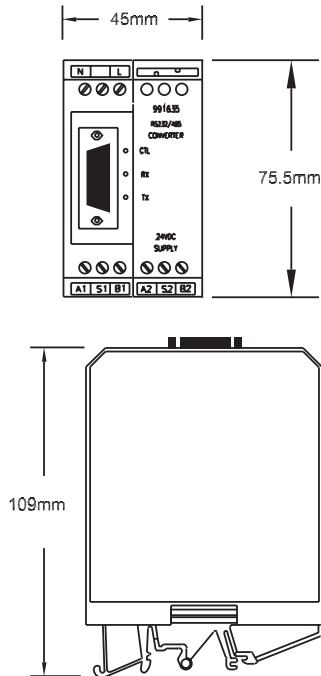
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Rated data

Supply voltage	12-35Vdc	230Vac±10%	120Vac±10%
Supply current	40mAdc	15mAac	25mAac
Isolation	supply to RS232 (Vac RMS)	0	1600V
	supply to RS485 (Vac RMS)	1600V	1600V
	RS232 to RS485 (Vax RMS)	1600V	1600V
Operating temperature	0-70°C	0-70°C	0-70°C
Maximum baud rate (subject to cable length)	120 Kbits/sec	120 Kbits/sec	120 Kbits/sec
RS232	EIA RS232C	EIA RS232C	EIA RS232C
	typical max. cable length	40 ft @100Kbit/sec	40 ft @100Kbit/sec
	typical voltage levels	±10V	±10V
RS485	EIA RS485 / EIA RS422	EIA RS485 / EIA RS422	EIA RS485 / EIA RS422
	typical max. cable length	4000 ft @100Kbit/sec	4000 ft @100Kbit/sec
	receiver cable load (half duplex)	unit load	unit load
	receiver cable load (full duplex)	1/2 unit load	1/2 unit load
ten, Typ. enable time DTR/RTS/Auto@25°C	90µSec	90µSec	90µSec
Min. AutoPulse to initiate drive @25°C	1.1µs	1.1µs	1.1µs

Ordering data

deciPak Serial Communications Interface	Cat.No. 991635	Cat.No. 991676	Cat.No. 991677
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Notes:

- RS485 short circuit protected
- RS485 failsafe receiver inputs
- RS485 driver can be enabled by RTS or DTR or may be automatically activated. The activation timeout can be altered by changing a resistor.
- Depending on speed of operation in the automatic activation, it is advisable to initiate transmission by forcing the Transmit Data line low for a very short period (e.g. set break) prior to the transmission of data.
- Default setting J2-8 in position 1-2 i.e. set for IBM PC with direct connection cable. DTR enabled, DSR and CTS enabled with pullup resistor to 10V. J9 is in position 2-3 (full duplex) and J10 is set to full duplex. 120M resistors are used for termination resistor (R19, 20) and the automatic activation period is set for 9600 baud.
- Detailed configuration and instructions available on request or on our WEB site at: www.weidmuller.ca (under "Application")