



Type 8545-1055

The type 8545-1055 Communication Isolator can be used to convert between RS-232, RS-422 and RS-485 signals.

It can also be used as an RS-422/485 repeater.

All data, power and ground lines are isolated from one side to the other.

FEATURES

- Isolation between equipment and line sides
- Transmission rates up to 115.2k baud, slew-rate limiting for increased EMI protection
- Switch selectable RS-232, RS-422 or RS-485 equipment side and line side
- Switch selectable termination
- Switch selectable for RS-485 baud rates, 2400 to 115.2k
- Status LEDs indicates data transfer
- Status LED for power
- Removable terminal blocks
- TS 35×7,5 rail mount

COMMUNICATION ISOLATOR

RS232/422/485 TO RS232/422/485

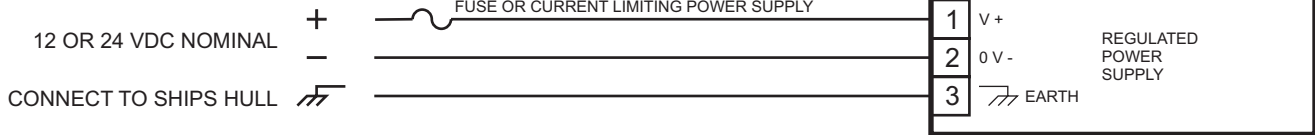


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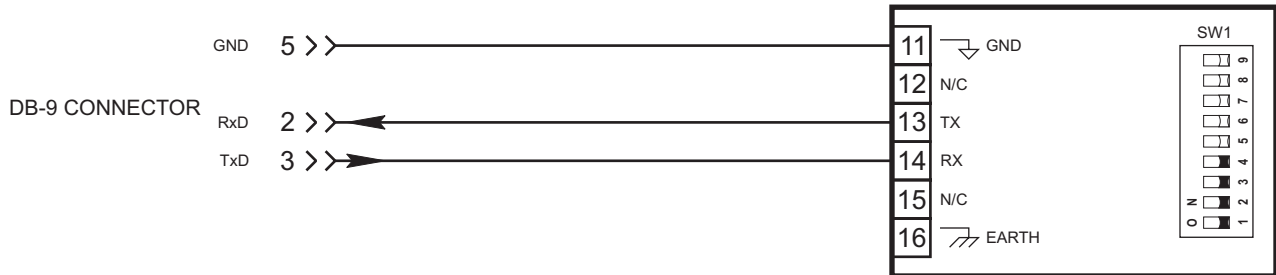
SB 8545-1055

LINE SIDE

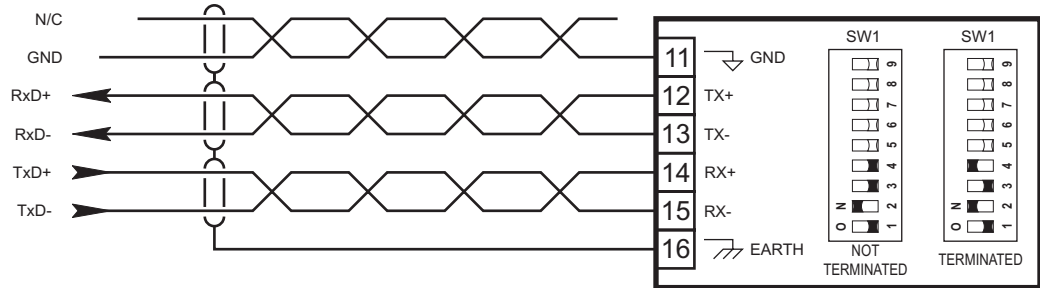
POWER CONNECTION



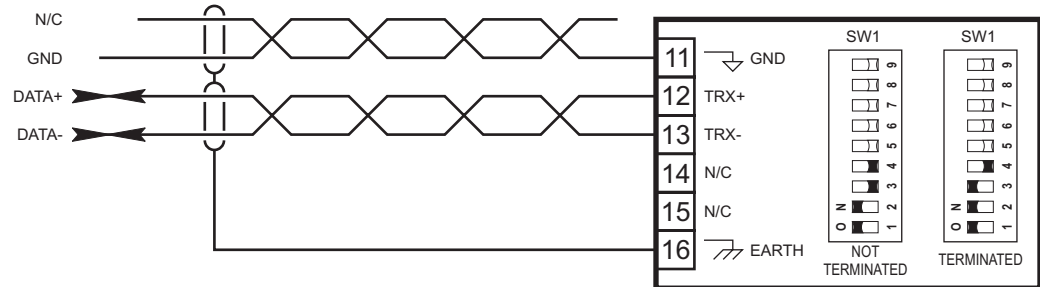
COM1 RS232 CONNECTION



COM1 RS422 CONNECTION

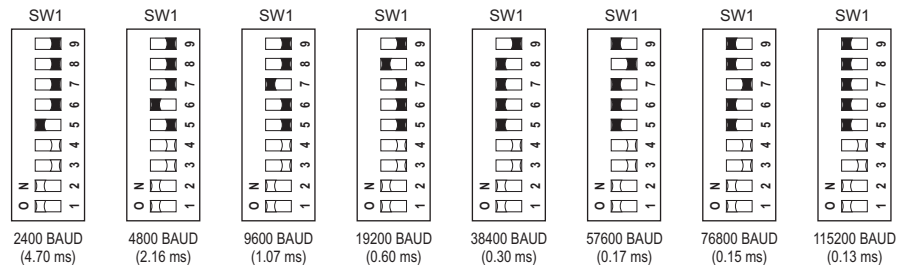


COM1 RS485 CONNECTION



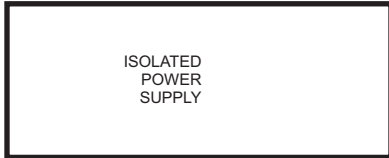
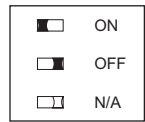
COM1 RS485 BAUD RATE SELECTION

(Tx Enable Off delay)

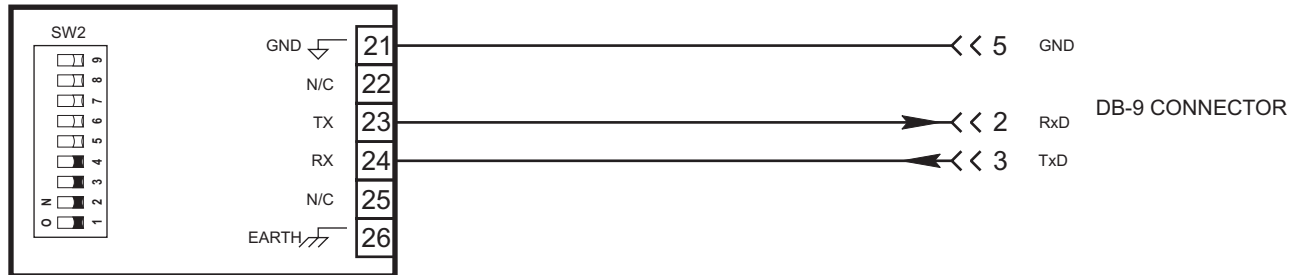


EQUIPMENT SIDE

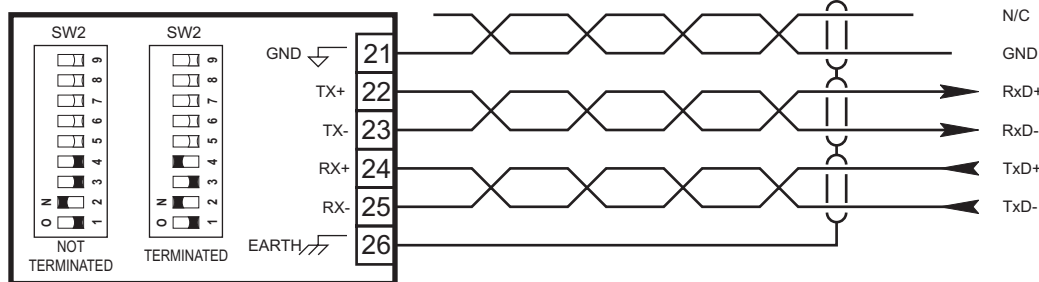
SWITCH LEGEND



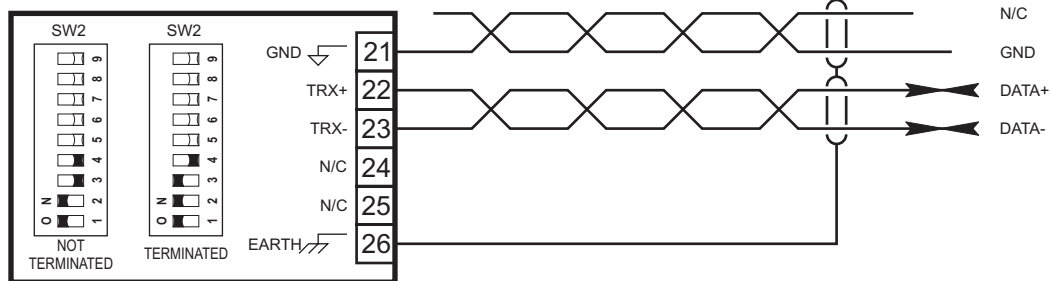
COM2 RS232 CONNECTION



COM2 RS422 CONNECTION

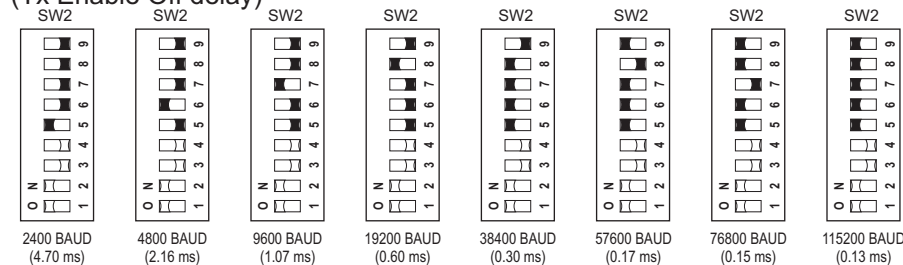


COM2 RS485 CONNECTION

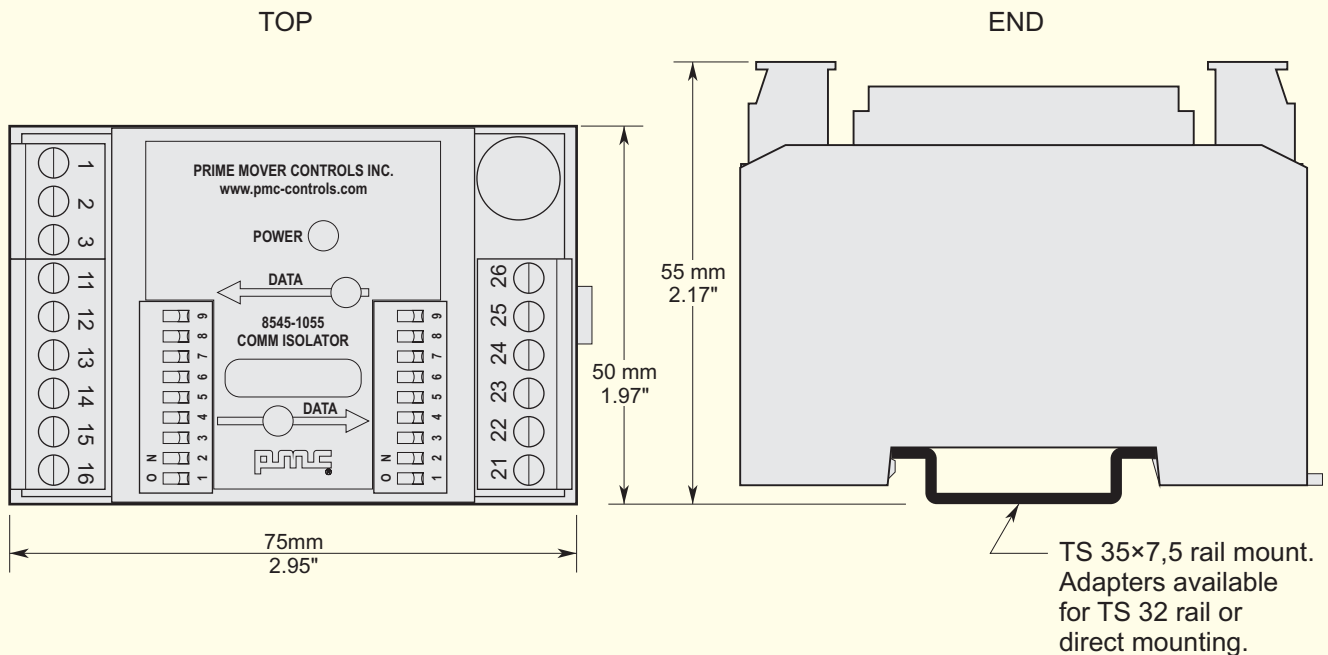


COM2 RS485 BAUD RATE SELECTION

(Tx Enable Off delay)



DIMENSIONS FOR 8545-1055 COMMUNICATION ISOLATOR



SCALE 1 : 1

SPECIFICATIONS:

Supply:

- Nominal 12 or 24 VDC, range 8 to 35 VDC
- Reverse voltage protection
- 30 mA nominal, 125 mA peak

Environmental:

- Operating temperature -25 to +70°C
- Storage temperature -40 to +85°C
- Vibration: range 3 to 100 Hz
Peak to peak amplitude 2 mm below 13.2 Hz
Acceleration 0.7 g above 13.2 Hz
- CE compliant for EMC (IEC/EN60945)

Physical:

- IP40 enclosure
- DIN rail mounting
- Dimensions 50 mm L × 75 mm W × 55 mm H
(1.97" L × 2.95" W × 2.17 H)
- Weight 0.11 kg (0.25 lbs)
- Removable terminal blocks for 14 to 20 AWG wires

Connection:

- RS-232/422/485
- Transmission channels (RS-422/485); Rx (A) Rx (B), Tx (A) Tx (B), two-wire half-duplex or four-wire full-duplex
- Transmission channels (RS-232); Tx, Tx, full duplex
- Maximum transmission rate, 115.2 k baud
- Slew-rate limiting for increased EMI protection

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