

1. Wiring Color Code (Internal) –

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Brown	Black	White	Pink	Gray	Red	Orange	Gray-Pink	Blue	Green	Violet	Yellow
Fun.	AO	GD	DOE	DO1	DO2	V+	RX	TX	T+/RTS	T-	R+ /CTS	R-

2. Digital Output –

Cable length	< 30 m unshielded cable possible (indoor only)
	≥ 30 m or outdoor use shielded cables only.

Color	Function
Red	Power
Black	Ground
Pink	Digital Output 1
Gray	Digital Output 2
White	Digital Output Error

3. Digital Input –

This digital input allows triggering or start / stop measurements by an external digital signal.

Color	Function
Red	Power
Black	Ground
Pink	Digital Output 1

4. Analog output –

The analog output of the D-Series sensors is a current source and is capable of driving loads up to 500 Ω. The current range is programmable to

Cable length	< 30 m unshielded cable possible (indoor only)
	≥ 30 m or outdoor use shielded cables only.

Color	Function
Red	Power
Black	Ground
Brown	Analog Output

5. RS-232 interface –

Cable length	≤ 15 m (unshielded cable for indoor use only)
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Color	Function
Red	Power
Black	Ground
Orange	RX
Gray-Pink	TX

6. RS-422 interface –

Cable length	≤ 500 m → ≤ 200'000 Baud (all baud rates possible) ≤ 1000 m → ≤ 100'000 Baud
Cable characteristics	Use shielded twisted pair cables only (twisted pairs: T+/T- and R+/R-)

Color	Function
Red	Power
Black	Ground
Violet	R+
Yellow	R-
Blue	T+
Green	T-

7. RS-485 interface –

Cable length	≤ 100 m → ≤ 1000 kBit/s ≤ 200 m → ≤ 600 kBit/s ≤ 500 m → ≤ 200 kBit/s ≤ 1000 m → ≤ 100 kBit/s
Cable characteristics	Cable characteristics Use shielded twisted pair cables only (twisted pairs: T+/T- and R+/R-)

Color	Function
Red	Power
Black	Ground
Violet	R+
Yellow	R-
Blue	T+
Green	T-