Connecting digital inputs to a Factbird® DUO

Digital input 1
Pin 4 (Black)

| 4 | 2 |

Digital input 2*
Pin 2 (White)

| 3 | 1 |

Ground
Pin 3 (Blue)

+24 V
Pin 1 (Brown)

M8 female connector
As seen from outside Factbird® DUO
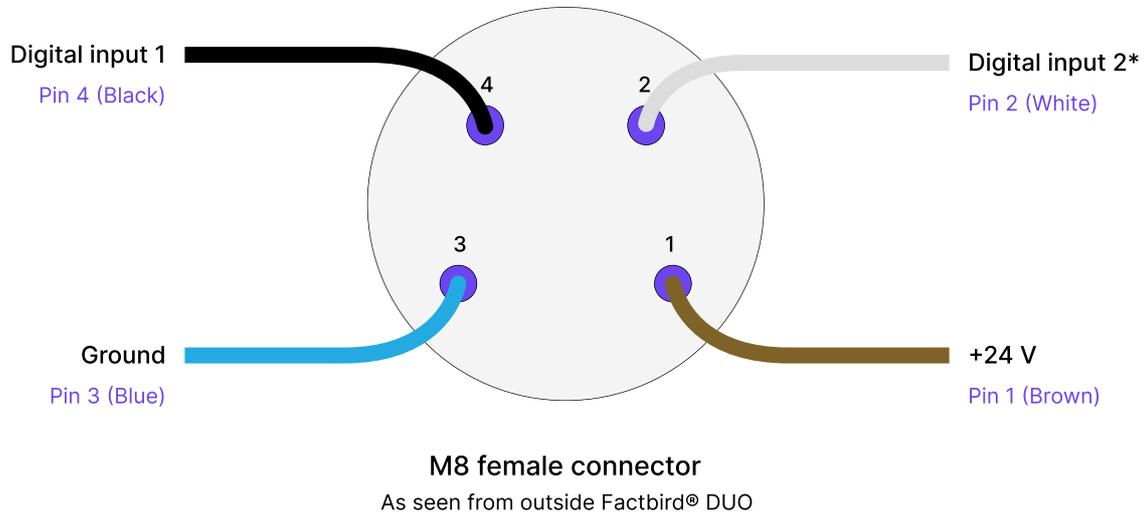
*It requires a two input connector to add a second digital input.

PNP Sensor
(Sourcing sensor)

+24V	1
Signal	4
Ground	3

Factbird® DUO

NPN Sensor
(Sinking sensor)

+24V	1
Signal	4
Ground	3

Factbird® DUO

Dry contact
Relay switch
Potential free contact

e.g. Push button, Energy meter (S0)

| +24V | 1 |
| Signal | *Seen as PNP* | 4 |
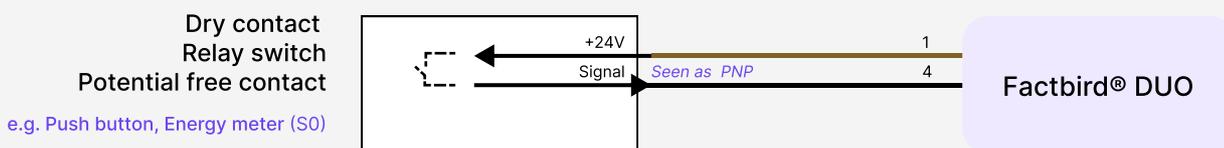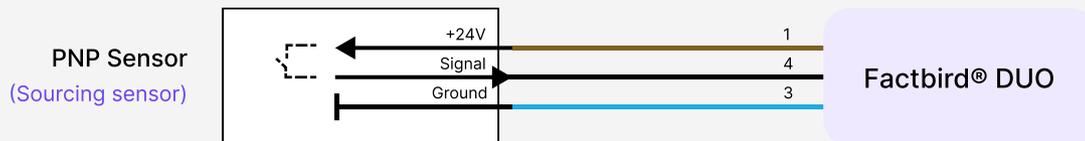
Factbird® DUO

Digital signal (12-30 V)

Counting:

Equipment — Signal (12-30 V) / Ground → PLC cable (Galvanic isolation) — Seen as NPN → Factbird® DUO

Copy existing signal
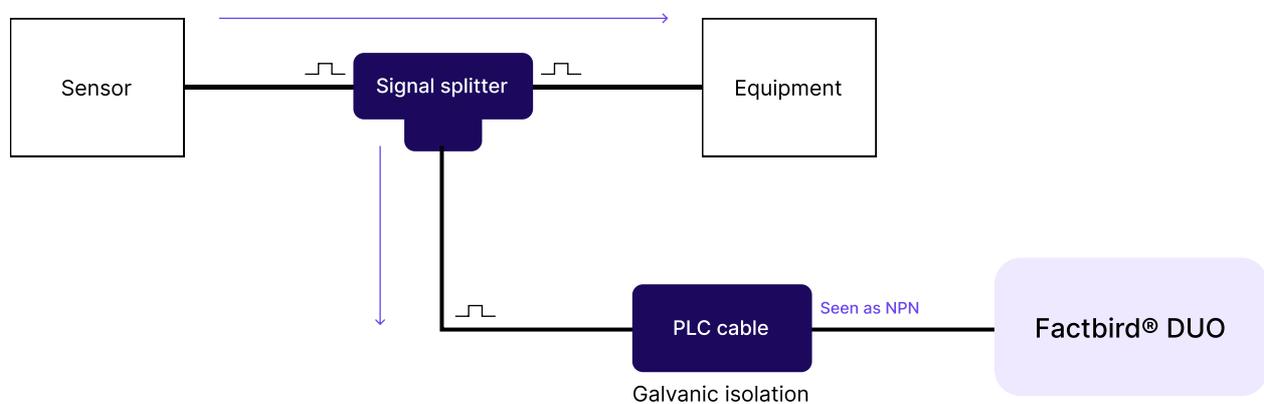
Sensor → Signal splitter → Equipment
Signal splitter → PLC cable (Galvanic isolation) — Seen as NPN → Factbird® DUO

Analog (4-20 mA)*

+24 V
Pin 1 (Brown)

4-20 mA input*
Pin 2 (White)

1 2

5

4 3

Ground
Pin 3 (Blue)

M12 female
As seen from outside converter

Analog Sensor
+24V
4-20 mA
Ground (optional)

1
2
3

DP2200
4...20mA converter

Factbird® DUO
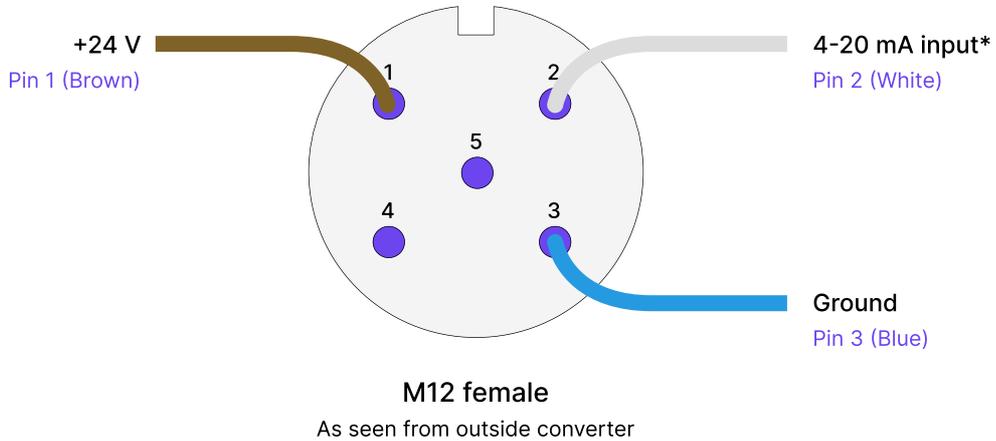
* Via converter - Only on hardware version 2.2 or higher

Analog (0-10 V)*

+24 V
Pin 1 (Brown)

1 2

5

4 3

0-10 V input
Pin 4 (Black)

Ground
Pin 3 (Blue)

M12 female
As seen from outside converter

Analog Sensor
+24V (optional)
0-10 V
Ground

1
4
3

DP1222
0-10 V converter

Factbird® DUO

* Via converter - Only on hardware version 2.2 or higher