

Datasheet
FrontControl Expansion assembly
IOF088

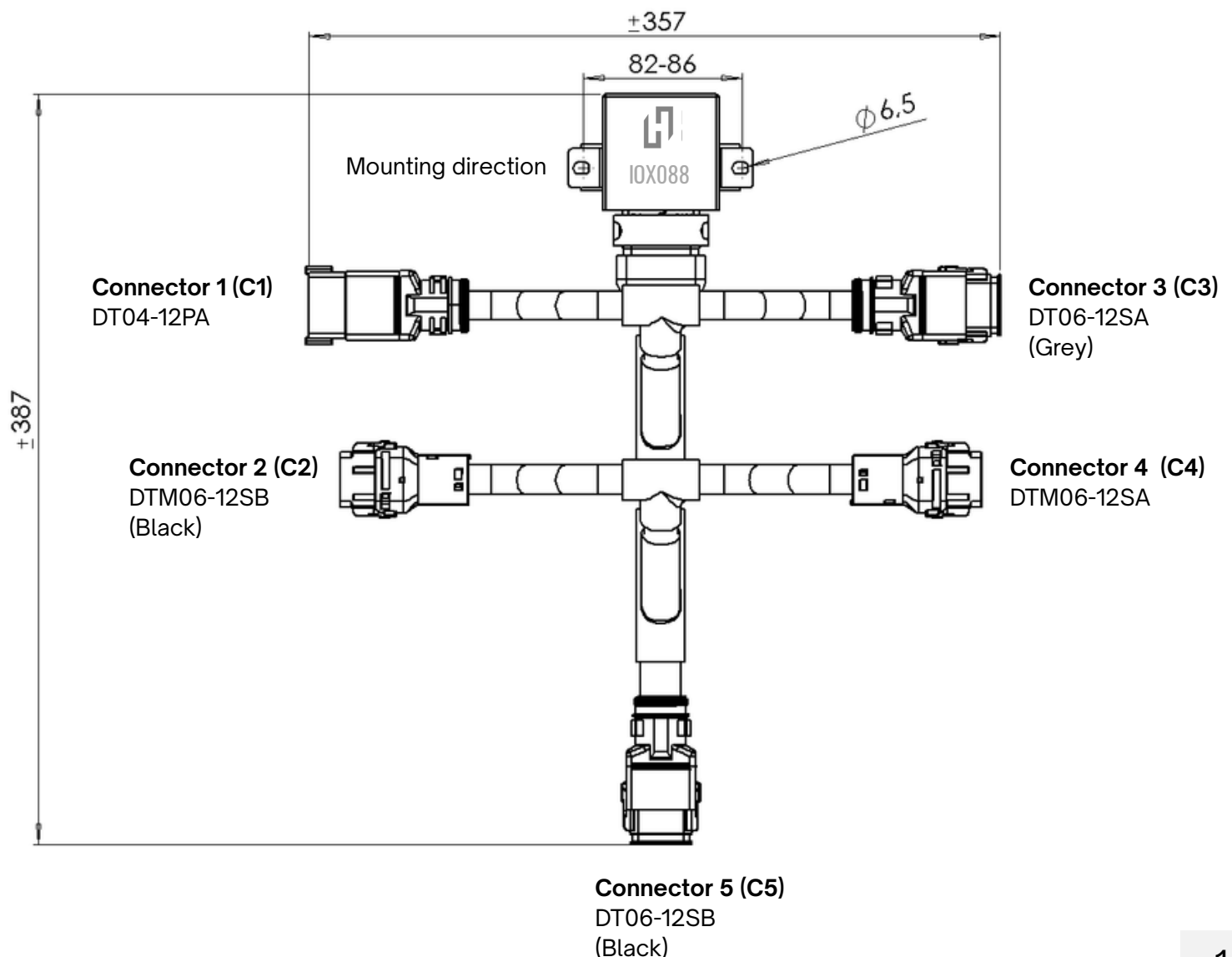


Mobile machine cable management

The FrontControl Expansion assembly is part of the FrontControl electrical solutions. The Expansion assembly provide cost-effective additional I/O to mobile machine systems.

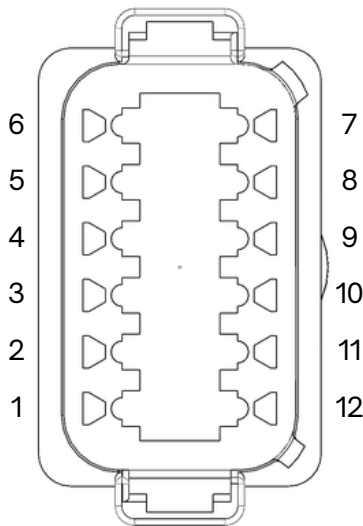
Endless connectivity

Because of the integrated CAN communication, the modules can be easily connected to each other, allowing additional inputs and outputs to be implemented effortlessly.



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Connector 1 (C1)



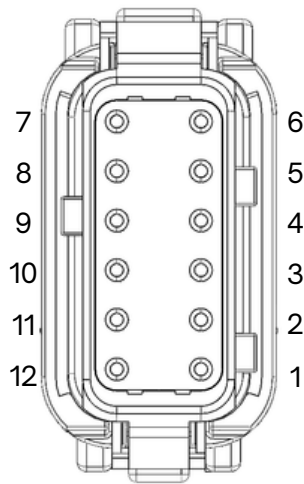
DT04-12PA
(Grey)

PIN ASSIGNMENTS INPUTS AND OUTPUTS

Pin	Description
C1p1	Power supply voltage +
C1p2	Power supply voltage +
C1p3	Power supply voltage +
C1p4	Ground
C1p5	CAN0 +
C1p6	CAN0 -
C1p7	Sensor supply, switchable to 5V, 8.5V, 10V, 500 mA max
C1p8	Analog input 4 (0-16 V) or frequency input 4. Input configurable as range switching 0-32 V, 1 k Ω pull-up, 330 Ω pull-down
C1p9	Analog input 2 (0-16 V) or frequency input 2. Input configurable as range switching 0-32 V, 1 k Ω pull-up, 330 Ω pull-down
C1p10	Analog input 0-16 V or ident pin
C1p11	CAN1 +
C1p12	CAN1 -

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Connector 2 (C2)



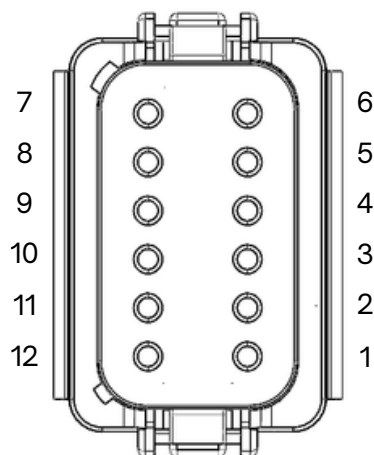
DTM06-12SB
(Black)

PIN ASSIGNMENTS INPUTS AND OUTPUTS

Pin	Description
C2p1	Analog input 0-16 V or ident pin
C2p2	Ground
C2p3	Power supply voltage +
C2p4	Analog input 4 (0-16 V) or frequency input 4. Input configurable as range switching 0-32 V, 1 k Ω pull-up, 330 Ω pull-down
C2p5	Ground
C2p6	Power supply voltage +
C2p7	Analog input 0 0-16 V or Frequency input 0 Input configurable as: Range switching 0-32 V 1 k Ω pull up 330 Ω pull down
C2p8	Ground
C2p9	Power supply voltage +
C2p10	
C2p11	CAN0 -
C2p12	CAN0 +

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Connector 3 (C3)



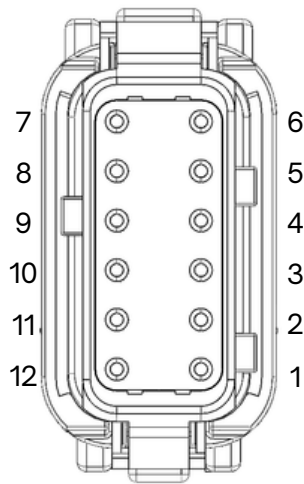
DT06-12SA
(Black)

PIN ASSIGNMENTS INPUTS AND OUTPUTS

Pin	Description
C3p1	Power supply voltage +
C3p2	Power supply voltage +
C3p3	Power supply voltage +
C3p4	Ground
C3p5	CAN0 +
C3p6	CAN0 -
C3p7	
C3p8	
C3p9	
C3p10	
C3p11	CAN1 +
C3p12	CAN1 -

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Connector 4 (C4)



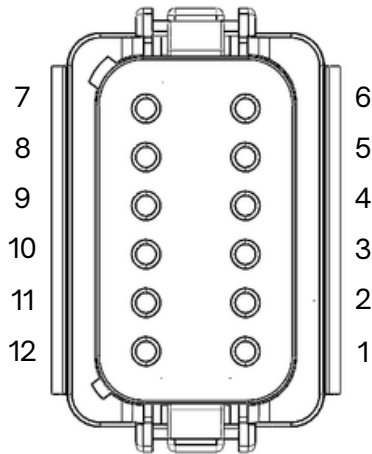
DT06-12SA
(Grey)

PIN ASSIGNMENTS INPUTS AND OUTPUTS

Pin	Description
C4p1	Analog input 2 0-16 V or Frequency input 2 Input configurable as: Range switching 0-32 V 1 kΩ pull up 330 Ω pull down
C4p2	Ground
C4p3	Power supply voltage +
C4p4	Analog input 4 0-16 V or Frequency input 4. Input configurable as: Range switching 0-32 V 1 kΩ pull up 330 Ω pull down
C4p5	Ground
C4p6	Power supply voltage +
C4p7	Analog input 2 0-16 V or Frequency input 2. Input configurable as: Range switching 0-32 V 1 kΩ pull up 330 Ω pull down
C4p8	Ground
C4p9	Power supply voltage +
C4p10	Analog input 1 0-16 V or Frequency input 1. Input configurable as: Range switching 0-32 V 1 kΩ pull up 330 Ω pull down
C4p11	Ground
C4p12	Power supply voltage +

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Connector 5 (C5)



DT06-12SB
(Black)

PIN ASSIGNMENTS INPUTS AND OUTPUTS

Pin	Description
C5p1	Ground
C5p2	Ground
C5p3	Ground
C5p4	Ground
C5p5	OUT 0: Analog input 0 or PWM output5 0 or Digital output 0 and INA current sense
C5p6	OUT 1: Analog input 1 or PWM output5 1 or Digital output 1 and INA current sense
C5p7	OUT 2: Analog input 2 or PWM output5 2 or Digital output 2 and INA current sense
C5p8	OUT 3: Analog input 3 or PWM output35 Digital output 3 or and INA current sense
C5p9	OUT 4: Analog input 5 or PWM output5 5 or Digital output 5 and INA current sense
C5p10	OUT 5: Analog input 5 or PWM output5 5 or Digital output 5 and INA current sense
C5p11	OUT 6: Analog input 6 or PWM output5 6 or Digital output 6 and INA current sense
C5p12	OUT 7: Analog input 7 or PWM output5 7 or Digital output 7 and INA current sense