# **IOM3.4**

Input/output module

**Data sheet** 



#### 1. Multi-line 300

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# Multi-line 300

#### 1.1 About the hardware modules

The Multi-line 300 (ML 300) hardware modules are printed circuit boards that slot in to either a rack R7.1 or rack R4.1. Depending on the type of module, they can provide measurement connections, inputs, and outputs.



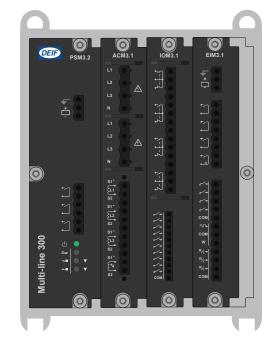
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Example rack R7.1

Example rack R4.1



The hardware modules feature:

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Multi-line 300

Placement flexibility in the rack.

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- Remove, replace, or add on-site.
- Automatically recognised.
- Configurable input and output functions (digital and analogue):

- Digital input functions: Commands from operators or 3rd party equipment, changing configuration, operating information.
- Digital output functions: Alarm status, commands to 3rd party equipment, operating information.
- Analogue input functions: External set points, operating information, supervised binary inputs.
- Analogue output functions: Regulation \*, operating information.

\* Only available on certain types of controller. NOTE

All slots must be covered during operation and blind modules can be used to cover unused slots.

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# 2. Technical specifications

## 2.1 Input/output module IOM3.4

The input output module has 12 digital outputs, and 16 digital inputs. These I/Os are all configurable.

#### **IOM3.4 terminals**

Module	Count	Symbol	Туре	Name
IOM3.4	12	삮	Digital output	Configurable
10M3.4	16	<b>-∕-</b> →	Digital input	Configurable
COM				
COM				

## **IOM3.4 technical specifications**

Category	Specification			
Digital outputs <sup>◆</sup> પ્£	Transistor type: PNP Supply voltage: 12 or 24 V DC nominal, maximum 36 V DC (relative to common) Maximum current (per output): < 55 °C: 250 mA; > 55 °C: 200 mA Leak current: Typical 1 µA, maximum 100 µA (temperature-dependent) Saturation voltage: Maximum 0.5 V Non-replaceable 4 A fuse Voltage withstand: ±36 V DC Load dump protected by TVS diodes Short circuit protection Reverse polarity protection Internal freewheeling diode			
Digital inputs	Bipolar inputs  • ON: -36 to -8 V DC, and 8 to 36 V DC  • OFF: -2 to 2 V DC  Minimum pulse length: 50 ms  Impedance: $4.7 \text{ k}\Omega$ Voltage withstand: $\pm 36 \text{ V DC}$			
Terminal connections	Terminals: Standard 45° plug, 1.5 mm <sup>2</sup> Wiring: 0.1 to 1.5 mm <sup>2</sup> (28 to 16 AWG), multi-stranded			

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Category	Specification
Torques and terminals	Module faceplate screws: 0.5 N·m (4.4 lb-in) Connection of wiring to terminals: 0.25 N·m (2.2 lb-in) UL/cUL Listed: Wiring must be minimum 90 °C (194 °F) copper conductors only
Galvanic isolation	Between groups: 600 V, 50 Hz for 60 s
Ingress protection	Unmounted: No protection rating Mounted in rack: IP20 according to IEC/EN 60529
Dimensions	L×H×D: 28 × 162 × 150 mm (1.1 × 6.4 × 5.9 in)
Weight	175 g (0.4 lb)

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# 3. Legal information

## 3.1 Disclaimer and copyright

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