



NXT DCM DC Module

The NXT DCM is an IP65 rated NMEA 2000 device that is connected to the main DC power and provides inputs and outputs to the system. Physically the DCM is a compact, easily mounted, 16 channel device, featuring two 16 way Molex MX150L connectors.

The main DC Power is connected by two M6 studs, stainless steel. In addition there is also a connector for EnOcean antenna. All output channels are electronically protected and feature undercurrent protection as well as soft start / stop and are capable of being electronically dimmed and of driving complex loads such as LED lighting or Windscreen Wipers directly.

To increase output capacity outputs may be paralleled and to simplify installations both High Side and Low Side switching is possible.

With multiple input capabilities and ranges the DCM is an extremely versatile and cost effective means to interface signals to the system and when combined with the powerful NXT software complex monitoring and control systems are easily realized in practice.

Features

- **NMEA 2000 DC Module**
- **12/24VDC operation, 100A Rating, DC Reverse polarity protection**
- **IP65**
- **Self adapting**
- **16 Universal user configurable bi-directional (I/O) channels**
- **Channels configured as outputs**
 - Electronic over-current protection and undercurrent detection, programmable fuse size
 - Discrete 10A or 18A operation, parallel operation for increased capacity
 - I.e. two output combined provide 36A, electronically limited and protected
 - Manual Set / Reset of any channel direct from DC Module in real time
 - Soft start / Soft Stop / Versatile Dimming / Lighting Effects
 - Wiper control, including parking, interval and multiple speed
 - Programmable polarity reversal (High Side & Low Side Switching)
- **Channels configured as inputs**
 - Volt free inputs with running / error indication
 - Multiplexed inputs – up to four switches per channel (no individual running / error indication)
 - Analogue inputs
 - Voltage Free
 - Voltage 0 – 32V
 - Current 4 – 20 mA
 - Resistance 0 – 1 500 ohm

Specifications

Output:

High side:	4 ch	18A*
High side:	12 ch	10A*
Low side:	16 ch	0,5A*

Digital input:

12V power peak/average:	170mA/1mA
24V power peak/average:	340mA/2mA
Current drive:	50mA

Analog input:

Volt:	0–16V/0–32V +/-1%
Current:	4–20mA +/-1%
Resistance:	0–1500 ohm +/-5%

Power supply:

Maximum current:	100A
Min power consumption:	1.5mA
Supply voltage 12V:	9–16VDC
Supply voltage 24V:	9–32VDC

Communication: CAN-bus NMEA 2000

Connector:

NMEA 2000:	Micro 5pin M12 Male
Channels:	Molex MX150L 16 circuits
Power supply:	M6 bolt
Antenna:	SMA female

Ambient temp.: -20°C to +55°C

Enclosure: Ingress Protection IP65

Dimensions: 230 x 106 x 38 mm

Weight: 0,4 kg

Regulation comp: ABYC, RoHS, CE, RCM

* Optional