

Compatible with SAE J1939
CAN bus engines

Selectable termination on both
CAN 1 and CAN 2

CAN 1 and CAN 2 are
independently configurable for
250 kbps, 500 kbps or 1 Mbps.

Message filter per J1939,
NMEA2000, 29 bit, and 11 bit
Identifier



COMPACT, ENCAPSULATED MODULE FOR DATA EXCHANGE BETWEEN TWO CAN NETWORKS

The Enovation Controls CANBridge™ is a compact module designed to enable the exchange of CAN communication data between two CAN networks. This can facilitate data exchange between networks operating at different baud rates. A software configuration tool simplifies setup and allows the user to save configuration settings in a file for future use.

CANBridge™ can be configured to allow the exchange of all CAN messages between the two networks, limit data exchange in one direction only, or filter bidirectionally on 11 or 29 bit identifiers. Additionally, the unit allows for using SAE J1939/NMEA2000 rules. J1939 data can

be filtered on source address and PGN independently in both directions. This filtering supports up to 16 combinations of source address and PGN. NMEA2000 has the same options for filtering as J1939 but adds a method for each of the 16 filters to reduce CAN traffic by retransmitting only every nth message. The NMEA filters also support fast-packet.

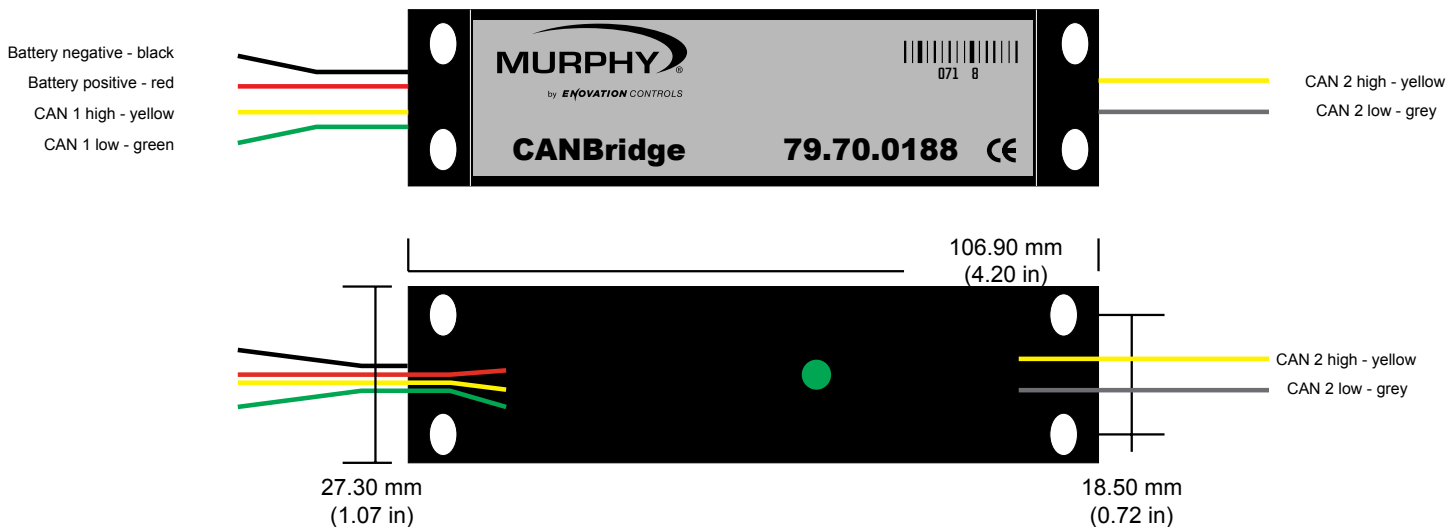
CANBridge™ is compact and light enough for inclusion in many wiring harnesses, but can also be surface mounted via four fixing holes. The case is fully sealed in epoxy resin for high impact and environmental resistance.



CANBridge™

CONNECTION & DIMENSIONS

Dimensions in mm (in.) for reference only. Use actual product for template.



SPECIFICATIONS

CAN FEATURES	
TERMINATION	Selectable independent termination of CAN 1 & CAN 2
BAUD RATE	Configurable independent baud rate of CAN 1 & CAN 2 (250 Kbps, 500 Kbps, 1 Mbps)
FILTERING	Selectable filtering is possible in each direction. Filtering via source address, PGN, Identifier length (11 or 29 bit), and up to 16 rules per direction for SAE J1939 or NMEA 2000.
RETRANSMIT	The unit supports the option to retransmit messages using a different source address.
NMEA	The 16 rules based filters include additional support for transmitting only every nth message to reduce CAN traffic. The filters also include an option for fast packet support.
ELECTRICAL	
OPERATING VOLTAGE	7 to 35 VDC
CURRENT CONSUMPTION	40mA (typ.) 75mA (max.)

EMC TESTING	
RADIATED EMISSIONS	EN 55011:2016, A1:2017
ESD	EN 61000-4-2009
RADIATED IMMUNITY	EN 61000-4-3:2006, A1:2008, A2:2012
FAST TRANSIENTS	EN 61000-4-4:2012
CONDUCTED IMMUNITY	EN61000-4-6:2014 Powerline frequency (magnetic field): EN 61000-4-8:2010
ELECTROMAGNETIC COMPATIBILITY	2014/30/EU
PHYSICAL	
CASE MATERIAL	High impact ABS, epoxy filled
WEIGHT	Approximately 60 g / 0.13 lb
OPERATING TEMPERATURE	-40 to +85°C (-40 to +185°F)
ENVIRONMENTAL SEALING	IP65 case, exposed lead ends

FOR MODEL & PART INFORMATION

ENOVATIONCONTROLS.COM/CANBRIDGE

FOR MANUAL & SUPPORT DOCUMENTS

SUPPORT.ENOVATIONCONTROLS.COM

FOR SUPPORT & WARRANTY

ENOVATIONCONTROLS.COM/SUPPORT

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