

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.

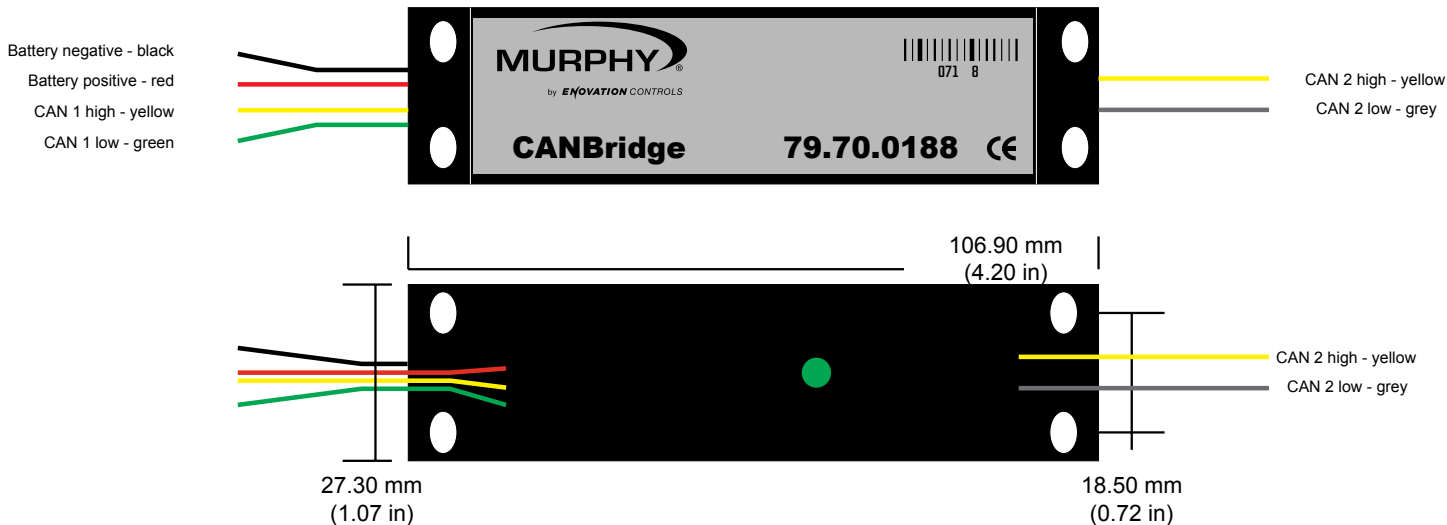
CANBridge is compact and light enough for inclusion in many wiring harnesses, but can also be surface mounted via four fixing holes. The case is fully sealed in epoxy resin for high impact and environmental resistance.



# CANBridge™

## CANBRIDGE CONNECTION & DIMENSIONS

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



## CANBRIDGE™ SPECIFICATIONS

CAN FEATURES	
<b>TERMINATION</b>	Selectable independent termination of CAN 1 & CAN 2
<b>BAUD RATE</b>	Configurable independent baud rate of CAN 1 & CAN 2 (250 Kbps, 500 Kbps, 1 Mbps)
<b>FILTERING</b>	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.
<b>RETRANSMIT</b>	The unit supports the option to retransmit messages using a different source address.
<b>NMEA</b>	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	
<b>OPERATING VOLTAGE</b>	7 to 35 VDC
<b>CURRENT CONSUMPTION</b>	40mA (typ.) 75mA (max.)

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

FOR MODEL & PART INFORMATION

[ENOVATIONCONTROLS.COM/CANBRIDGE](http://ENOVATIONCONTROLS.COM/CANBRIDGE)

FOR MANUAL & SUPPORT DOCUMENTS

[SUPPORT.ENOVATIONCONTROLS.COM](http://SUPPORT.ENOVATIONCONTROLS.COM)

FOR SUPPORT & WARRANTY

[ENOVATIONCONTROLS.COM/SUPPORT](http://ENOVATIONCONTROLS.COM/SUPPORT)

## SALES CONTACT

**ENOVATION**  
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A HELIOS TECHNOLOGIES COMPANY  
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