

The **busstop**<sup>®</sup> station provides a connection for 8 I/O points. The first 4 points can be either inputs or outputs. The other 4 points are inputs only. All inputs and outputs are powered by DeviceNet™. This is ideal for small systems that don't require auxiliary power.

To use an I/O point as an output, simply turn on the corresponding output bit. The output will switch on HIGH. Note that this will in turn cause the corresponding input bit to turn on. If the corresponding input does not turn on, the output is shortened.

The **FDN20-4S-4XSG-0189** supports explicit messaging, poll, change of state, and cyclic I/O messages. These connections are established through UCMM or predefined master/slave connection set.

## FDN20-4S-4XSG-0189

### Integrated Design

- Extremely flexible DeviceNet™ station
- Four inputs and four inputs/outputs

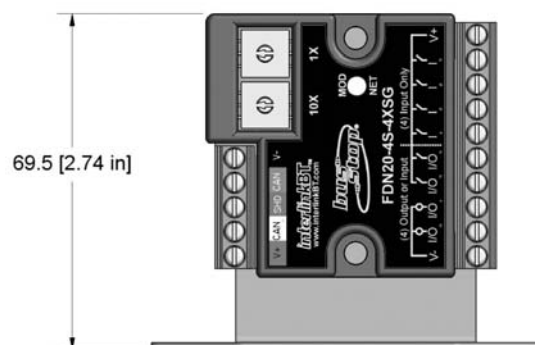
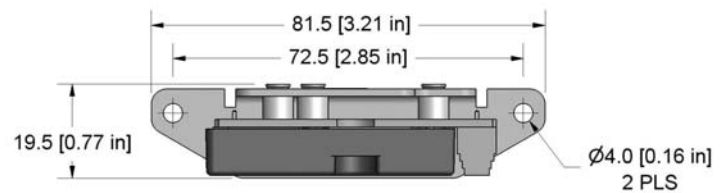
### Application

- For operator stations
- For use with PNP Sensors or 0.5 Amp outputs

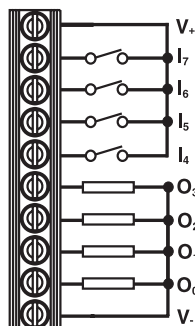
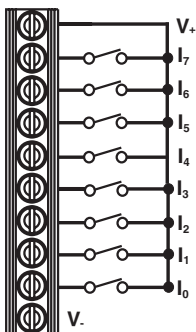
### Features

- PNP short-circuit protected inputs
- 0.5 Amp short-circuit protected outputs

## Dimensions



## Terminal Wiring



## Module Specifications

### Supply Voltage

Bus Power	11-26 VDC
Internal Current Consumption	≤50 mA plus sum of sensor and output currents (from bus power)

### Input Circuits

(4-8) PNP 3-wire sensors or dry contacts

Input Voltage (V+)	11-26 VDC (from bus power)
Input Short-Circuit (V+)	<700 mA (total, short-circuit protected)
Input Signal Current (Input)	OFF 0-4 V, 0-0.5 mA ON 8-24 VDC, 1-3.4 mA
Input delay	2.5 ms

### Output Circuits

(4) DC actuators

Output Voltage	18-26 VDC (from Bus power)
Output Load Current	0.5 Amps each (from Bus power)
Maximum switching frequency	100 Hz

### Rotary Switch

0-63: Address from switches  
64-79: Address from EEPROM  
80-99: Reserved

### Network Status LED

Green: established connection  
Flashing Green: ready for connection  
Flashing Red: connection time-out  
Red: connection not possible

### Housing

Material	Nylon with Aluminum DIN Bracket
Enclosure	IP 20
Operating Temperature	-40° to 70°C (-40° to 158°F)

## I/O Data Mapping

Product Type/Code: 7/3025

Input Data	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	0	I-7	I-6	I-5	I-4	I-3	I-2	I-1	I-0
1	IGS	OGS	-	-	-	-	-	-	-
Output Data	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	0	-	-	-	-	O-3	O-2	O-1	O-0

## Abbreviations

I = Input Data (0=OFF, 1=ON)  
O = Output Data (0=OFF, 1= ON)  
IGS = Input Group Status (0=Working, 1= Fault)  
OGS = Output Group Status (0 =Working, 1= Fault)