



# J-1939 Tell-Tale Indicator with 16 Icon Positions

**NexSysLink®**  
CAN Instruments Product Family  
**SAE J1939**



## Features and Benefits

- Environmentally sealed connectors
- Custom icon configurations available
- Up to six discrete inputs switched either high or low
- SAE J-1939 CAN protocol support
- Connects seamlessly with **NexSysLink** MNI instruments
- Bright LED illuminated tell-tales
- Built in audible alarm and switched output
- Factory configurable for +12V or +24V systems

This CAN based product complements the **NexSysLink®** instrument system by providing sixteen LED illuminated operator alert tell-tales along with an audible alarm to alert users to multiple fault conditions.

## Product Description

The alert panel directly reads and processes SAE J-1939 compliant CAN messages, serial data from any NexSysLink Master Node Instrument and up to ten factory configurable discrete inputs switched either high or low to activate the tell-tales and/or audible alarm.

The product meets OBD regulatory requirements for wait-to-start lamp by performing required circuit continuity check.

A discrete output capable of switching up to one amp and an audible output increase the utility of this product.



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Protocol Compliance

Society of Automotive Engineers SAE J1939

Environmental Specifications

Shock (Non-operating):  
50G, 9-13mS half-sine,  
25 shocks in each of three orthogonal axes  
Vibration (Non-operating):  
0.06" (1.5mm) double amplitude 10-80-10 Hz  
2 hours in each of three orthogonal axes  
Temperature:  
Operating, -20°F to 158°F (-30°C to 70°C)  
Storage, -40°F to 185°F (-40°C to 85°C) 50% RH  
Humidity:  
95% relative humidity @110°F (43°C) non-condensing

Mounting Specifications

See diagram below for mounting pattern.  
Mounting hardware torque: 6 lb-in (0.68 N-m) max.

Electrical Specifications

Reverse Polarity Protection: Standard entire system  
Load Dump:  
Meets SAE J1113, 3 positive 80V transients  
one minute intervals  
Operating Voltage: 11-16VDC standard  
Over Voltage:  
Withstands 18V continuously for one hour  
Tell-tale illumination: LED

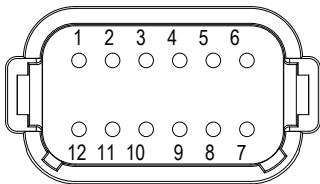
Connector Specifications

Mates with Deutsch I.P.D. DT series connectors.  
12 pin Connector: DT06-12SA, Locking wedge W12S  
16-20 AWG stranded copper wire recommended.

Mechanical

Case:  
Black thermoplastic copolymer  
Dial:  
Textured finish polymer  
Backlit dead-front alert icons  
Opaque background  
Sealing:  
IP 65 compliant

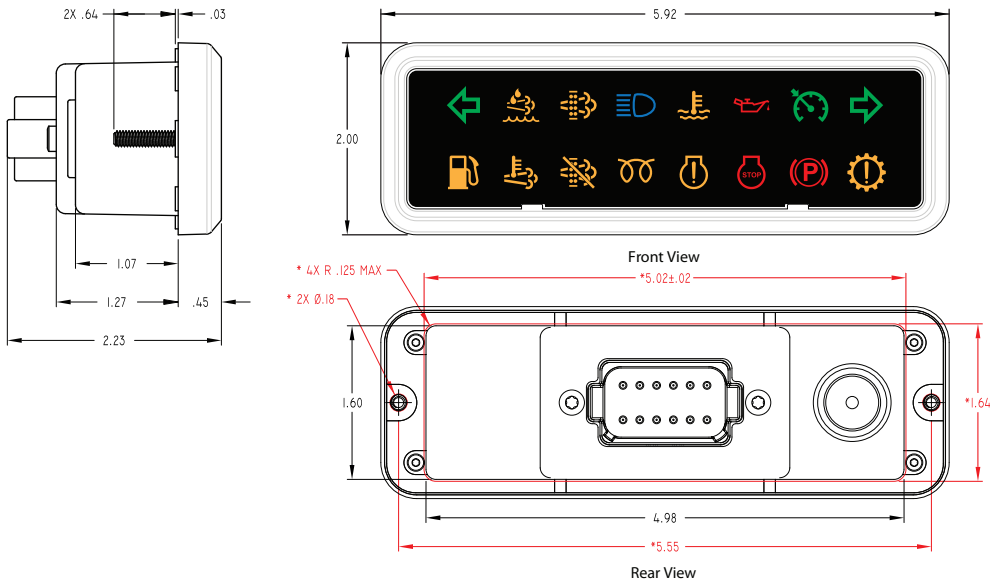
Wiring Connections



12 Pin Connector Detail  
Mates with Deutsch I.P.D.  
DT Series Connector  
DT-06-12SA  
Locking Wedge W12S

| Connection Chart |  |
|------------------|--|
| Pin Number       | Connection Name                                |
| 1                | Switched Ignition (Key On)                     |
| 2                | System Ground                                  |
| 3                | CAN-L  |
| 4                | CAN-H  |
| 5                | Serial Data                                    |
| 6                | Relay Normally Open (Optional)                 |
| 7                | Switched Input 1<br>or Relay Common (Optional) |
| 8                | Switched Input 2                               |
| 9                | Switched Input 3                               |
| 10               | Switched Input 4                               |
| 11               | Switched Input 5                               |
| 12               | Switched Input 6                               |

Product Outline Drawing



Notes:  
Recommended panel hole  
outline and dimensions shown in red.  
Panel hole dimensions also  
delineated with an asterisk (\*).

Dimensions shown are in inches.