



Triliptical® Stackable Status Indicator

DeviceNet™, PLC Compatible

102 Series

FEATURES

- > PLC compatible
- > Seven interchangeable light source modules:
 - steady-on or flashing incandescent
 - steady-on or flashing halogen
 - steady-on or flashing LED
 - 300,000 peak candela strobe
- > Molded-in gasketed lens modules
- > Six lens colors available: red, amber/orange, yellow, blue, green & clear
- > Stackable in any combination or color
- > Base unit comes with optional tone module
- > Module rearrangement requires no wiring

The Edwards Triliptical Stackable Status Indicator is a unique audible-visual signaling device that can contain up to 5 light modules and a pulsating horn in a single “stack.” All modules are gasketed.

The Triliptical Stackable Status Indicator bases are available in three models. A shorter base for conduit or surface mounting or a larger base designed for use with an optional tone module assembly. The larger base is also available with an optional DeviceNet interface.

The Triliptical diffusion optic lens allows viewing from close up while still projecting the light through use of a built-in projection ring. The lenses are available in six colors: red, amber/orange, yellow, blue, green, and clear. Each light source module contains a removable cover to allow for easy relamping. The light module cover features a molded-in gasket for dust tight reliability. Double optics and the triliptical design provides an increased viewing area without increasing the base diameter. The lens modules can be easily stacked together utilizing an internal retaining assembly. Two tone modules are available. A single tone module and a tone selectable tone module - one tone selectable from eight available tones. Provides up to 85 dB at 5 feet. The multi-tone module is also available with an optional DeviceNet interface that allows all eight tones to be controlled over a DeviceNet network.

Surface or 3/4" (19mm) NPT conduit pipe mounting in non-hazardous dust and weatherproof applications. It is recommended that the unit be mounted vertically with lenses facing up.

AGENCY APPROVALS

- > UL 1638 Listed
- > CE Marked low voltage directive and EMC directive
- > NEMA Type 3R, Type 4X and IP65 Rated
- > cUL Listed

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TECHNICAL INFORMATION

DeviceNet Compatible Stackable Status Indicator

The 102 Series Tripliptical Stackable Status Indicator has been tested by ODVA's authorized independent test lab and complies with ODVA conformance test software.

The Tripliptical DeviceNet Stackable Beacon is a slave device. It is a general purpose status indicator designed to indicate the status of a machine or process. The unit contains a preprogrammed microcontroller which implements the Group 2 predefined Master/Slave Connection Set. This allows for one Explicit Messaging Connection and one Poll Connection. The Stackable Beacon resets automatically when DeviceNet power is applied.

The DeviceNet interface is in the Tripliptical DeviceNet Base, 102TBS-DN, which interfaces between the

DeviceNet network and all installed stacklight modules. The unisolated physical layer contains DeviceNet required mis-wiring protection circuitry. A standard open style (unsealed) 5 pin connector is used to connect the Stackable Beacon to the DeviceNet bus. The current draw from the bus is 0.12A. The power required to drive the lamps is supplied separately from the bus power for the 120V AC (N5) version. DC power for the 24V DC (G1) version may be taken locally or from the DeviceNet Network. A standard open style 2 pin connector is used to connect 24V DC @ 1.6A or 120V AC at 0.6A to drive the 5 light sources.

The DeviceNet compatible unit provides for complete light source diagnostics. Each light source: LED, strobe, halogen or incandescent is continuously monitored for operability. An inoperable or missing light source is reported on the DeviceNet network.

SIGNAL INPUT LOAD CHARACTERISTICS*

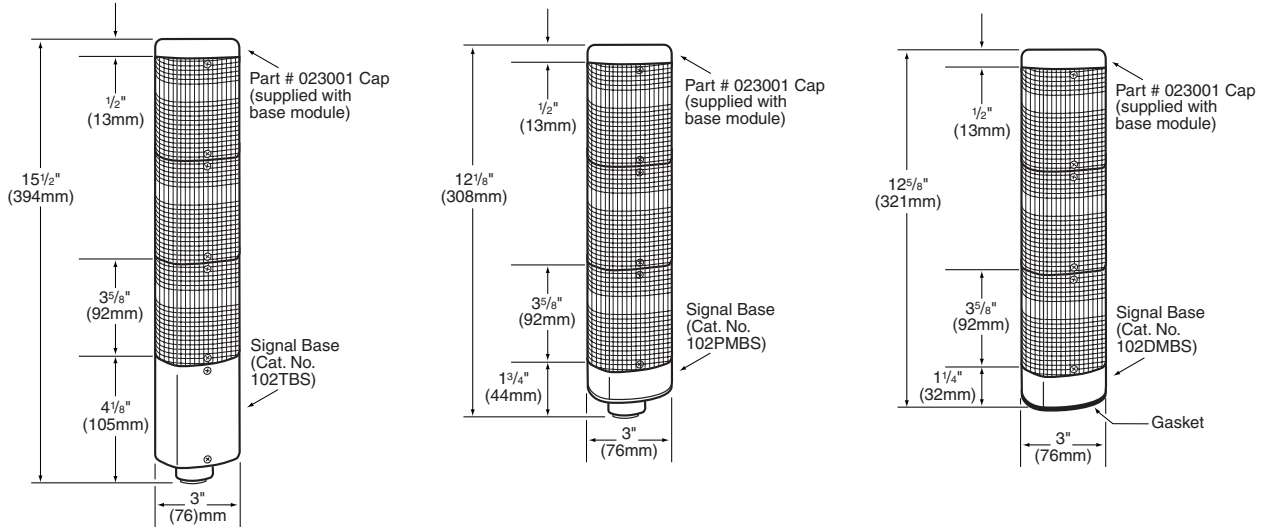
Light Source/Tone Module Cat. No.	Operating Voltage	Max. off state leakage current (mA)	Continuous on Current (mA)	Surge (inrush/duration) Amps/milliseconds
102SIGST-G1	24V DC	5	50	.24/.2
102SIGST-N5	120V AC	5	70	.35/.5
102SIGMT-G1	24V DC	5	50	.24/.2
102SIGMT-N5	120V AC	5	70	.35/.5
102LS-SIN-G1	24V DC	25	32	.36/1
102LS-SIN-N5	120V AC	25	80	.15/8
102LS-SINH-G1	24V DC	25	320	.36/1
102LS-SINH-N5	120V AC	25	110	.5/8
102LS-FIN-G1	24V DC	25	32	1.4/100
102LS-FIN-N5	120V AC	25	80	.3/8
102LS-FINH-G1	24V DC	25	320	1.2/100
102LS-FINH-N5	120V AC	25	110	1.15/8
102LS-ST-G1	24V DC	1.5	300	.33/1
102LS-ST-N5	120V AC	5	120	50/1
102LS-SLED()-G1	24V DC	5	65	.025/1
102LS-SLED()-N5	120V AC	5	25	.09/8
102LS-FLED()-G1	24V DC	5	65	.07/1
102LS-FLED()-N5	120V AC	5	25	.09/8

*This device is PLC compatible and may be operated by PLCs with output characteristics that match the input load requirements of this signal.

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VISUAL SIGNALS



Catalog No.	Description	Electrical Ratings	Lamp Ratings	Replacement Lamp	Lamp Life (hours) Calculated*	Projected**	Manufacturer's Light Output
102TBS-G1	Base Unit - Use with optional horn assy	24V DC, 1.75A*	N/A	N/A	N/A	N/A	N/A
102TBS-N5	Mini base for direct panel mount	120V AC, 0.60A*	N/A	N/A	N/A	N/A	N/A
102DMBS-G1	Mini base for 3/4" (19mm) conduit mt	24V DC, 1.75A*	N/A	N/A	N/A	N/A	N/A
102DMBS-N5		120V AC, 0.60A*	N/A	N/A	N/A	N/A	N/A
102PMBS-G1	Optional Tone Module	24V DC, 0.05A	N/A	N/A	N/A	N/A	N/A
102PMBS-N5		120V AC, 0.05A	N/A	N/A	N/A	N/A	N/A
102SIGST-G1		24V DC, 0.05A	N/A	N/A	N/A	N/A	N/A
102SIGST-N5		120V AC, 0.05A	N/A	N/A	N/A	N/A	N/A
102SIGMT-G1		24V DC, 0.05A	N/A	N/A	N/A	N/A	N/A
102SIGMT-N5		120V AC, 0.05A	N/A	N/A	N/A	N/A	N/A
102PMF	Pipe Mount Flange	N/A	N/A	N/A	N/A	N/A	N/A
102MP-4 (4")	Pipe Extensions (for use with Pipe Mount Flange)	N/A	N/A	N/A	N/A	N/A	N/A
102MP-10 (10")		N/A	N/A	N/A	N/A	N/A	N/A
102MP-15 (15")		N/A	N/A	N/A	N/A	N/A	N/A
102LM-*	Lens Module	N/A	N/A	N/A	N/A	N/A	N/A
102LS-SINH-G1	Steady-on Halogen Light Source	24V DC, 0.32A	9 Watts	50LMP-9WH	12,000	—	653 peak candela
102LS-SINH-N5		120V AC, 0.11A	12 Watts	50LMP-12WH	20,000	—	879 peak candela
102LS-SIN-G1	Steady-on Incandescent Light Source	24V DC, 0.32A	10 Watts	Ind. Trade 303	10,000	—	829 peak candela
102LS-SIN-N5		120V AC, 0.08A	10 Watts	50LMP-10W	2,500	—	829 peak candela
102LS-FINH-G1	Flashing Halogen Light Source	24V DC, 0.32A	9 Watts	50LMP-9WH	12,000	15,000	653 peak candela
102LS-FINH-N5		120V AC, 0.11A	12 Watts	50LMP-12WH	20,000	25,000	879 peak candela
102LS-FIN-G1	Flashing Incandescent Light Source	24V DC, 0.32A	10 Watts	Ind. Trade 303	10,000	12,500	829 peak candela
102LS-FIN-N5		120V AC, 0.08A	10 Watts	50LMP-10W	2,500	3,000	829 peak candela
102LS-ST-G1	Strobe Light Source	24V DC, 0.30A	3 Joule	N/A	3,000***	—	300,000 peak candela
102LS-ST-N5		120V AC, 0.12A	3 Joule	N/A	3,000***	—	300,000 peak candela
102LS-SLEDA-G1**	Steady-on LED Light Source	24V DC 0.062A	—	N/A	120,000	—	4346 peak candela
102LS-SLED(**)-G1**		120V AC 0.022A	—	N/A	120,000	—	1821 peak candela
102LS-SLEDA-N5**		24V DC 0.062A	—	N/A	120,000	—	4346 peak candela
102LS-SLED(**)-N5**		120V AC 0.022A	—	N/A	120,000	—	1821 peak candela
102LS-FLEDA-G1***	Flashing LED Light Source	24V DC 0.062A	—	N/A	120,000	—	4346 peak candela
102LS-FLED(**)-G1**		120V AC 0.022A	—	N/A	120,000	—	1821 peak candela
102LS-FLEDA-N5***		24V DC 0.062A	—	N/A	120,000	—	4346 peak candela
102LS-FLED(**)-N5**		120V AC 0.022A	—	N/A	120,000	—	1821 peak candela
102TBS-DN-G1	DeviceNet Base Unit	24V DC, 1.75A*	N/A	N/A	N/A	N/A	N/A
102TBS-DN-N5		120V AC, 0.60A*	N/A	N/A	N/A	N/A	N/A
102SIGMT-DN-G1	DeviceNet Base Mounted	24V DC, 0.05A	N/A	N/A	N/A	N/A	N/A
102SIGMT-DN-N5	Optional Tone Module	120V AC, 0.05A	N/A	N/A	N/A	N/A	N/A

*Currents shown are for a stackable with 5 light modules. **Signifies lens and LED color (B - blue, G - green, R - red or W - white)

**Signifies lens module color (A - amber/orange, B - blue, C - clear, G - green, R - red, Y - yellow)

***NOTE: LED light sources must be used with the corresponding color lens module (e.g., a blue LED light source, 102LS-SLEDB-G1, must be used with a blue lens, 102LM-B).

At nominal operating voltage. *Projected lamp life based on manufacturer's calculated lamp life @ 65 fpm and 50% duty cycle. ****Strobe tube life @ operating power to 75% efficiency.

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TECHNICAL INFORMATION

How-to-order Triliptical Stacklites

To build a Stacklite, one base unit and the required number of lens modules and light sources need to be ordered. For example, to build a 120VAC, two high, steady incandescent stacklight on a direct mount base, order (one) 102DMBS-N5, (two) 102LM (in required colors), and (two) 102LS-SIN-N5.

Base Unit	102	+				-			-			
	Cat. No.	Options					DN**	Voltage				
	102	TBS = Use with optional tone module. Wiring terminals 3/4" (19mm) conduit mount*					⋮	G1 = 24V DC				
		DMBS = Mini base for direct panel mount*						N5 = 120V AC				
		PMBS = Mini base for 3/4" (19mm) conduit mount*										
*Cap included ** DN = Optional DeviceNet												
Tone Module	102	+				-			-			
	Cat. No.	Options					DN**	Voltage				
	102	SIGST = Optional Single-Tone Module					⋮	G1 = 24V DC				
		SIGMT = Optional Multi-Tone Module						N5 = 120V AC				
							G1 = 24V DC					
Lens Modules	102	+	LM			-			-			
	Cat. No.	Options					Lens Color					
	102	LM = Lens module					A = Amber/orange B = Blue C = Clear G = Green R = Red Y = Yellow					
Light Sources	102	+	LS			-			-			
	Cat. No.	Light	Type			Color (LED Only)	Voltage					
		LS = Light Source	SINH = Steady-on halogen			A = Amber B = Blue G = Green R = Red W = White	G1 = 24V DC N5 = 120V AC					
			FINH = Flashing halogen									
			SIN = Steady-on standard incandescent									
			FIN = Flashing standard incandescent									
			ST = Strobe									
	SLED = Steady-on LED											
	FLED = Flashing LED											

Pre-Assembled Three High Steady-On Incandescent Models

The Triliptical Stackable Beacon is available pre-assembled 3 high stacks as shown in the below table.



Catalog No.	Voltage	Colors	Light Source Type
102SIN-RGA-G1	24V DC	Red, Green, Amber/Orange	Steady-On Incandescent
102SIN-RBA-G1	24V DC	Red, Blue, Amber/Orange	Steady-On Incandescent
102SIN-RGA-N5	120V AC	Red, Green, Amber/Orange	Steady-On Incandescent
102SIN-RBA-N5	120V AC	Red, Blue, Amber/Orange	Steady-On Incandescent