BALLUFF

Flexible signal light for visualizing machine statuses and processes

SMARTLIGHT: FLEXIBLE, SCALABLE, SMART TOWER LIGHT

Balluff's SmartLight optimizes the display of machine statuses and operating processes and presents them flexibly and clearly. Equipped with IO-Link, it offers maximum flexibility in operation and seamless integration into your infrastructure. The connection via an unshielded sensor cable enables fast and cost-efficient installation. The Balluff SmartLight has several operating modes tailored to different industrial needs. It offers four programmable modes of functionality: segment or stack light, runlight, level, and flexible.
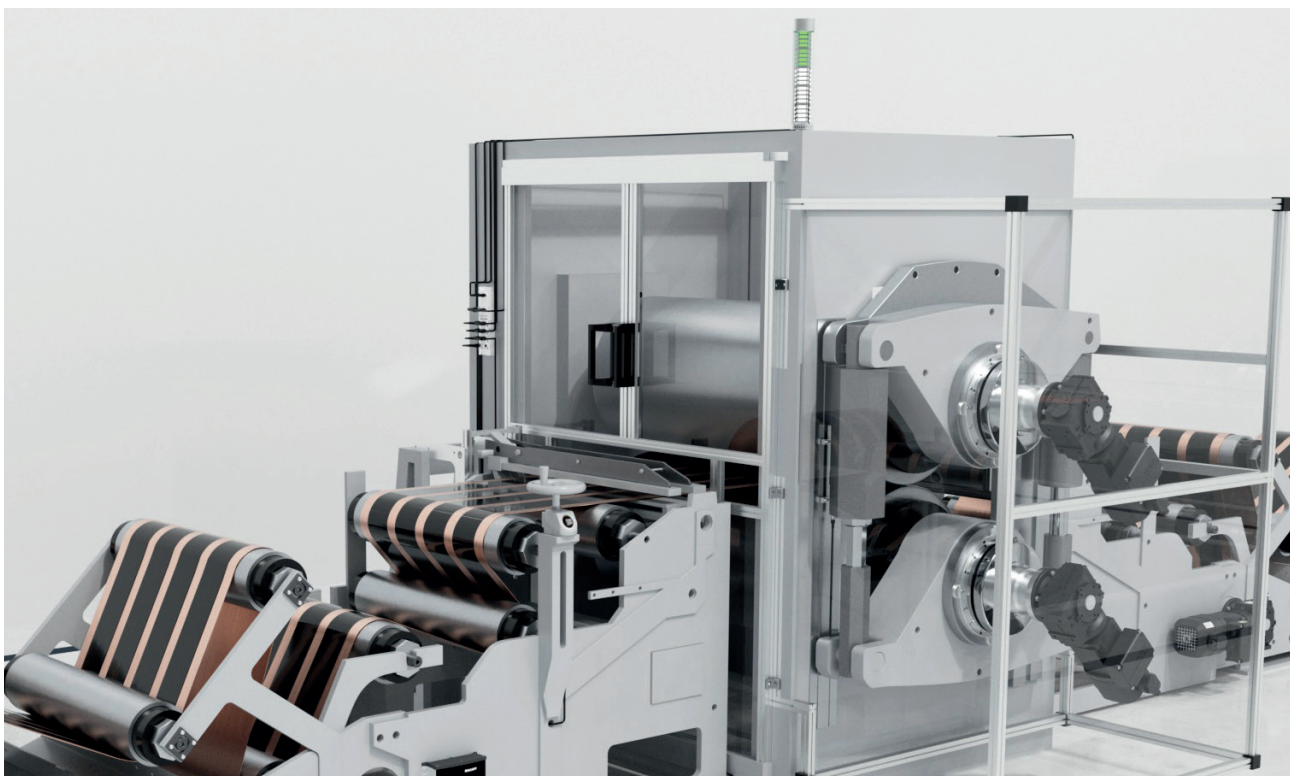
In segment mode, the SmartLight can display up to five independent LED segments, each of which can be set to solid, blinking or flashing in a different programmable color to clearly indicate machine conditions. Run light mode provides a dynamic running light effect, ideal for visualizing operational readiness or running processes.

Level mode enables a precise display of fill levels and flexible mode enables the individual configuration of LED rings, allowing up to 20 different segments for customized signaling.

These modes are complemented by the SmartLight's ability to synchronize functions across multiple units to ensure consistent signaling along the production line. The robust IP65 housing ensures reliable performance even in demanding industrial environments. The Balluff SmartLight is available with an adjustable audible signaling as well.

Features

- Versatile functionality: multiple modes for different signaling needs
- Cost saving: Use standard sensor cable reducing cabling costs and installation time
- Robust design: IP65 protection ensures durability in industrial environments
- Seamless integration: Easy connection to existing systems with IO-Link
- Advanced synchronization: Consistent signaling across multiple units for optimized operations

CE c(UL)us LISTED ◆ IO-Link

The SmartLight BNI LED signal tower enables simple and clear visualization of machine statuses and processes.

LED-SIGNAL TOWER

	BNI007T	BNI0088	BNI0082
Dimension	60 x 60 x 117 mm	60 x 60 x 213 mm	60 x 60 x 309 mm
Rated operating voltage U_e	24 V (18...30.2 V)	24 V (18...30.2 V)	24 V (18...30.2 V)
Interface	IO-Link 1.1	IO-Link 1.1	IO-Link 1.1
Segments, number max.	1 (4 Level)	3 (12 Level)	5 (20 Level)
Colors, number	7 preset colors + user color	7 preset colors + user color	7 preset colors + user color
Function indicator	Runlight Mode Level Mode Segment Mode Flexi-Mode	Runlight Mode Level Mode Segment Mode Flexi-Mode	Runlight Mode Level Mode Segment Mode Flexi-Mode
Lens material	Polycarbonat, transparent	Polycarbonat, transparent	Polycarbonat, transparent
Connection	M12x1-Male, 4-pin, A-coded	M12x1-Male, 4-pin, A-coded	M12x1-Male, 4-pin, A-coded
Mounting	Hexagon nut M18x1	Hexagon nut M18x1	Hexagon nut M18x1
Ambient temperature	−5...+50 °C	−5...+50 °C	−5...+50 °C
IP rating IEC 60529	IP65	IP65	IP65
Housing material	Die-cast zinc	Die-cast zinc	Die-cast zinc
Current consumption	≤ 100 mA / 24 V	≤ 245 mA / 24 V	≤ 400 mA / 24 V
Approval/Conformity	CE, WEEE, cULus	CE, WEEE, cULus	CE, WEEE, cULus

LED-SIGNAL TOWER – WITH SOUND MODULE

INDICATOR LIGHT WITH SOUND MODULE	BNI0087	BNI008A	BNI0085
Volume (at a distance of 1m)	95 dB/m	95 dB/m	95 dB/m
Dimension	60 x 60 x 138.5 mm	60 x 60 x 234.5 mm	60 x 60 x 330.5 mm
Rated operating voltage U_e	24 V (18...30.2 V)	24 V (18...30.2 V)	24 V (18...30.2 V)
Interface	IO-Link 1.1	IO-Link 1.1	IO-Link 1.1
Segments, number max.	1 (4 Level)	3 (12 Level)	5 (20 Level)
Colors, number	7 preset colors + user color	7 preset colors + user color	7 preset colors + user color
Function indicator	Runlight Mode Level Mode Segment Mode Flexi-Mode	Runlight Mode Level Mode Segment Mode Flexi-Mode	Runlight Mode Level Mode Segment Mode Flexi-Mode
Lens material	Polycarbonat, transparent	Polycarbonat, transparent	Polycarbonat, transparent
Connection	M12x1-Male, 4-pin, A-coded	M12x1-Male, 4-pin, A-coded	M12x1-Male, 4-pin, A-coded
Mounting	Hexagon nut M18x1	Hexagon nut M18x1	Hexagon nut M18x1
Ambient temperature	−5...+50 °C	−5...+50 °C	−5...+50 °C
IP rating	IP30	IP30	IP30
Housing material	Die-cast zinc	Die-cast zinc	Die-cast zinc
Current consumption	≤ 110 mA / 24 V	≤ 255 mA / 24 V	≤ 410 mA / 24 V
Approval/Conformity	CE, WEEE, cULus	CE, WEEE, cULus	CE, WEEE, cULus

ACCESSORIES

MOUNTING TECHNOLOGY	BAM026K	BAM034C	BAM02M5	BAM0255
Description	Stand 100 mm	Stand 250 mm	Stand	Bracket 90°

CONNECTIVITY	BCC039K	BCC03AA	BCC039M	BCC03AE
Description	1 m, straight plug	1 m, angled plug	1 m, straight plug	1 m, angled plug