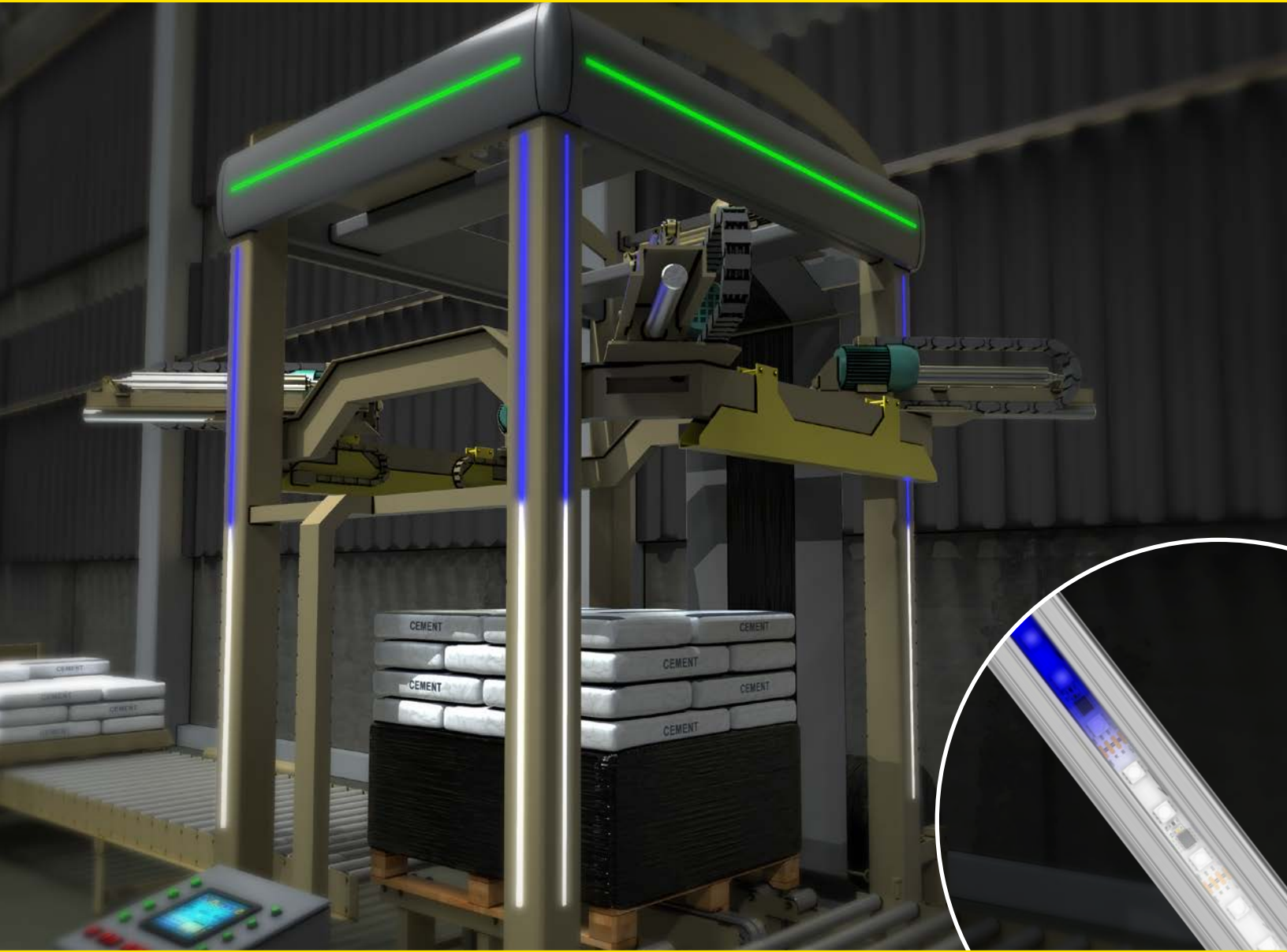


WLF12 Pro Flexible Strip Lights

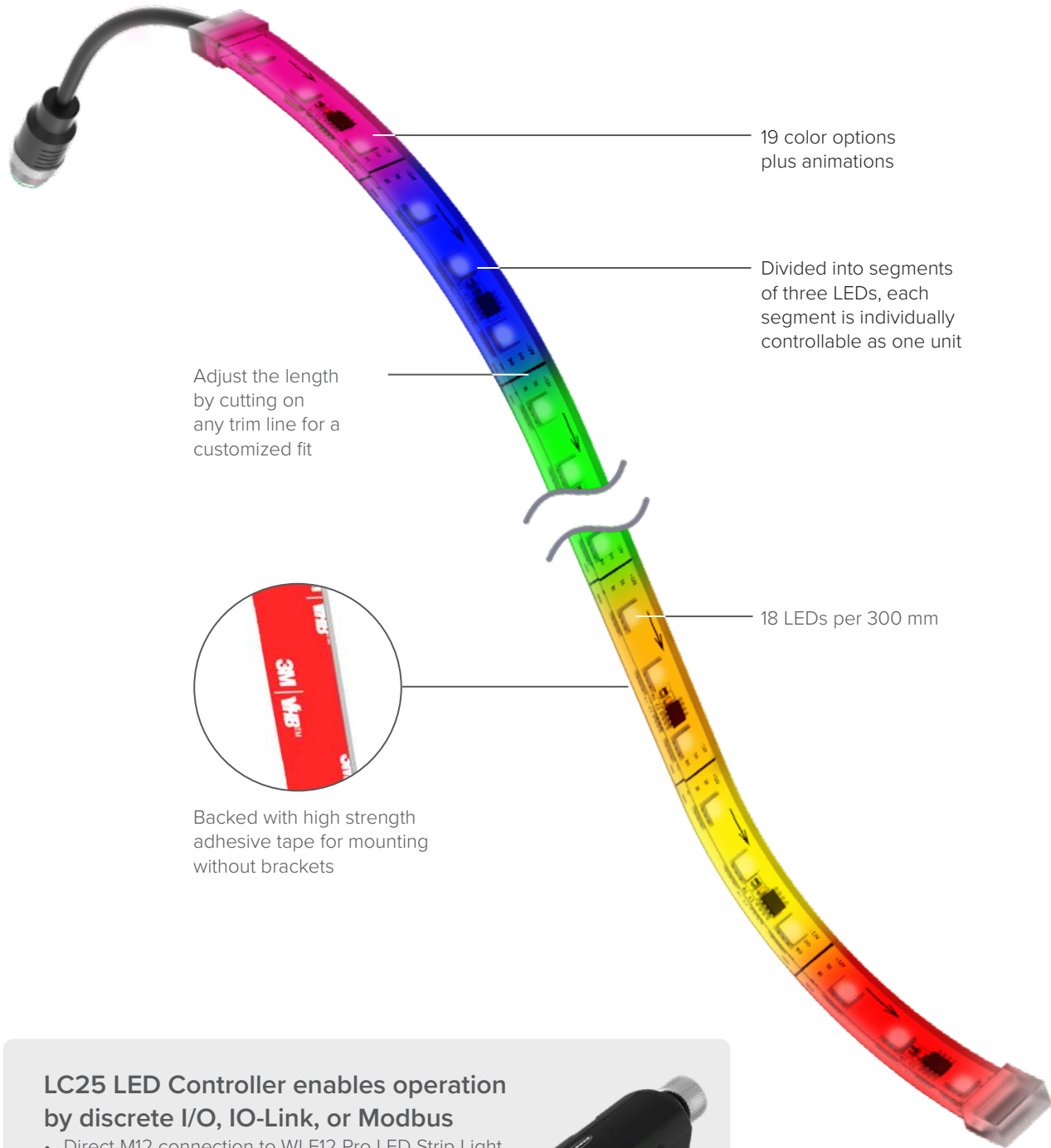


A Flexible Multicolor Strip Light Built for Industrial Applications

- Durable, silicone-encapsulated housing provides long-lasting, worry-free performance
- Plug-and-play standard M12 connections simplify installation by eliminating soldering
- 19 colors and 15 animation effects visually communicate machine states to people working on or near equipment
- Six standard lengths (from 300 to 3000 mm) can be cut in 50 mm increments to fit to exact application specifications
- Peel-and-stick installation using high-strength adhesive backing ensures quick and secure mounting
- Available LC25 LED Controller enables simple discrete I/O, IO-Link, or Modbus operation



Industrial Status Indication



19 color options plus animations

Divided into segments of three LEDs, each segment is individually controllable as one unit

Adjust the length by cutting on any trim line for a customized fit

18 LEDs per 300 mm

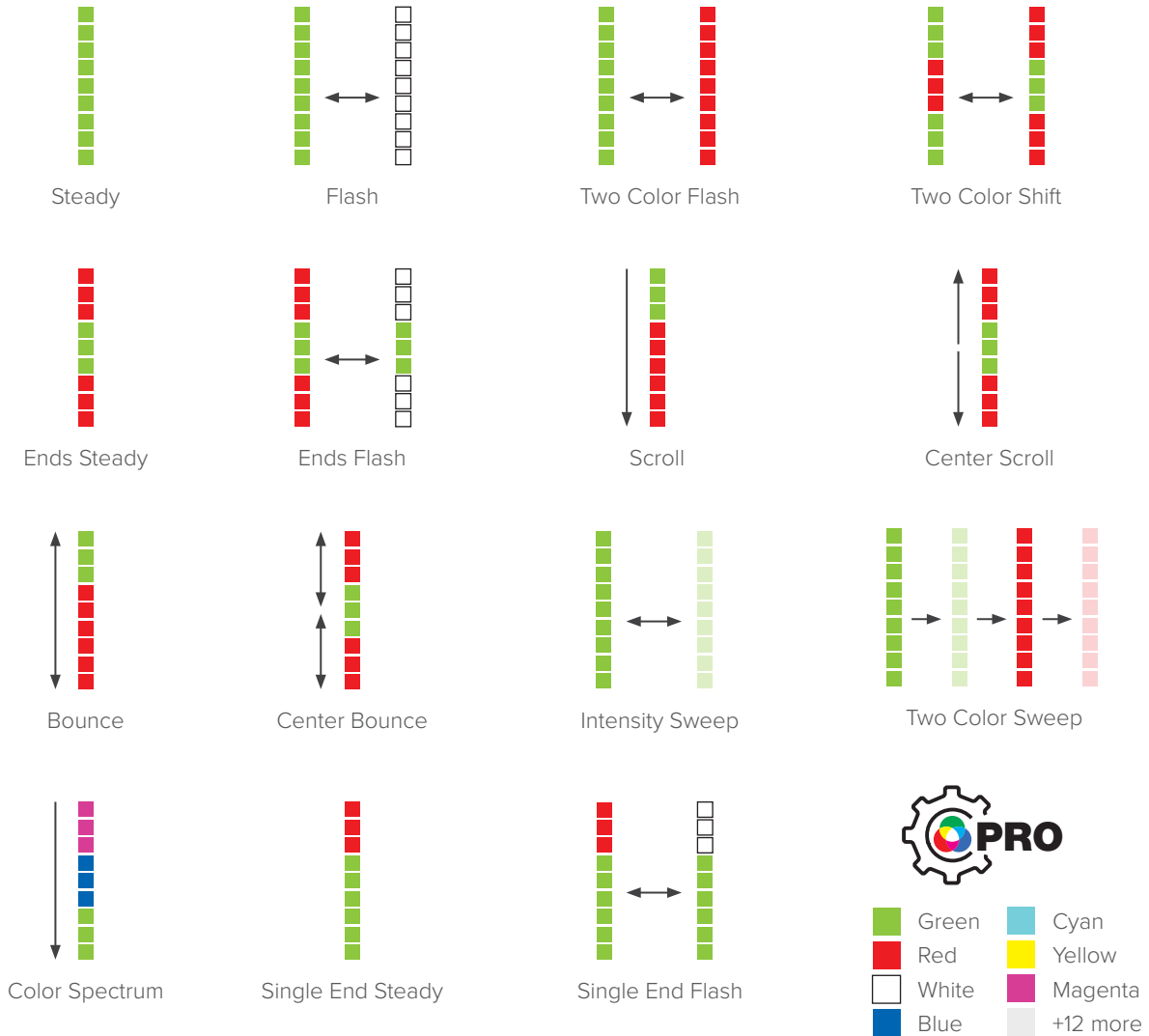
Backed with high strength adhesive tape for mounting without brackets

LC25 LED Controller enables operation by discrete I/O, IO-Link, or Modbus

- Direct M12 connection to WLF12 Pro LED Strip Light
- Dynamic control and advanced animations
- DC operation from 12 to 30 V
- IP65, IP67, and IP68 rated to simplify installation



Colors and Animations



*Visit Bannerengineering.com to download [Pro Editor software](#) for custom configurations

AGV Status Indication

Challenge

Design engineers at an AGV (Automated Guided Vehicle) manufacturer were looking for ways to add lights to their vehicles that would help communicate the status of the AGV with people who would be working around them. For example, adding turn signals on an AGV to show those in the area its direction of travel. The lights would need to be installed around the curved corners found on the machine, ruling out typical industrial lighting products.

Solution

The WLF12 Pro was chosen because of its flexible and durable housing, peel-and-stick installation, multiple color options, and animation capabilities. Because the WLF12 comes in five lengths and can be further customized by cutting to lengths that better fit the application, the manufacturer was able to find a model that was an exact fit for their needs. The high strength adhesive backing allowed the lights to be mounted quickly. The electrical installation was also simplified by using industry standard M12 connectors and avoiding the need for any special soldering or connectors to be added to the lights. Lastly, engineers configured the WLF12 Pro to display the colors and animations needed to communicate various AGV states to people nearby.

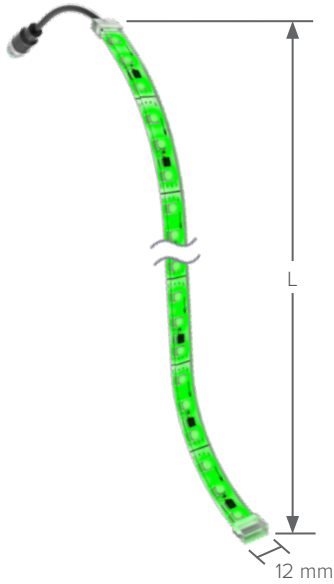


WLF12 Pro Flexible Multicolor Strip Lights

Series	Style	Cascadable	Color*	Lighted Length	Construction	Connection
WLF12	P	X	RGB	300	S	QP
P = Pro		X = Non-cascadable	RGB = RGB multicolor	300 = 300 mm 600 = 600 mm 900 = 900 mm 1200 = 1200 mm 2000 = 2000 mm 3000 = 3000 mm	S = Sealed	QP = 150 mm PVC-jacketed cable with 4-pin M12 male quick disconnect

*LC25 Pro LED Controller required for discrete I/O and IO-Link operation

Specifications



Length (L)
300 mm
600 mm
900 mm
1200 mm
2000 mm
3000 mm

Supply Voltage

Strip light: 12 V DC
with Discrete LC25: 12 to 30 V DC
with IO-Link LC25: 18 to 30 V DC
with Modbus LC25: 18 to 30 V DC

Bending Radius

15 mm

Construction

Silicone material, suitable for damp location use.
Fully overmolded and encapsulated LEDs.

Operating Conditions

-20 to +45 °C

Environmental Rating

IP66, IP67, IP69K

Certifications



Accessories



LC25C-WLF12-RGB7Q
Pro LED Controller*



LC25C-WLF12-KQ
Pro LED Controller
with IO-Link*



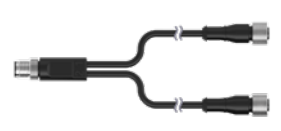
LC25C-WLF12-SQ
Pro LED Controller
with Modbus*



LMBWLF12C
Set of 10 clamp brackets,
translucent silicone



R50-4M125-M125Q-P
4-port parallel wired
junction box



S15YB-M124-M124-0.2M
4-Pin M12 QD splitter cable
(male trunk, female branches)

*LC25 Pro LED Controller required for discrete I/O, IO-Link, and Modbus operation

M12 Cordset

Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC-406RA)



4-Pin
MQDC-406
2 m (6.5')
MQDC-415
5 m (15')
MQDC-430
9 m (30')

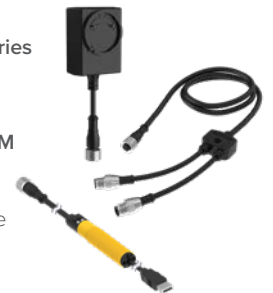
M12 Double-ended Cordset
Straight connector models



4-Pin
MQDEC-401SS
0.31 m (1')
MQDEC-403SS
0.61 m (3')
MQDEC-406SS
2 m (6.5')

Pro Editor Accessories

PSW-24-1
Power Supply
CSB-M1251FM1251M
Splitter
MQDC-506-USB
Pro Converter Cable



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