



Smartest programmable RGB signal lighting to provide wide and bright Color reproduction. High-performance RGB signal elements to display Status on **Machine, automated industrial processing and manufacturing** even at longer distance. Uniform illuminance, full color, flashing or progressing mode are freely and easily configurable via DMX 512.

Compatible with gateway Modbus RTU/DMX RS485

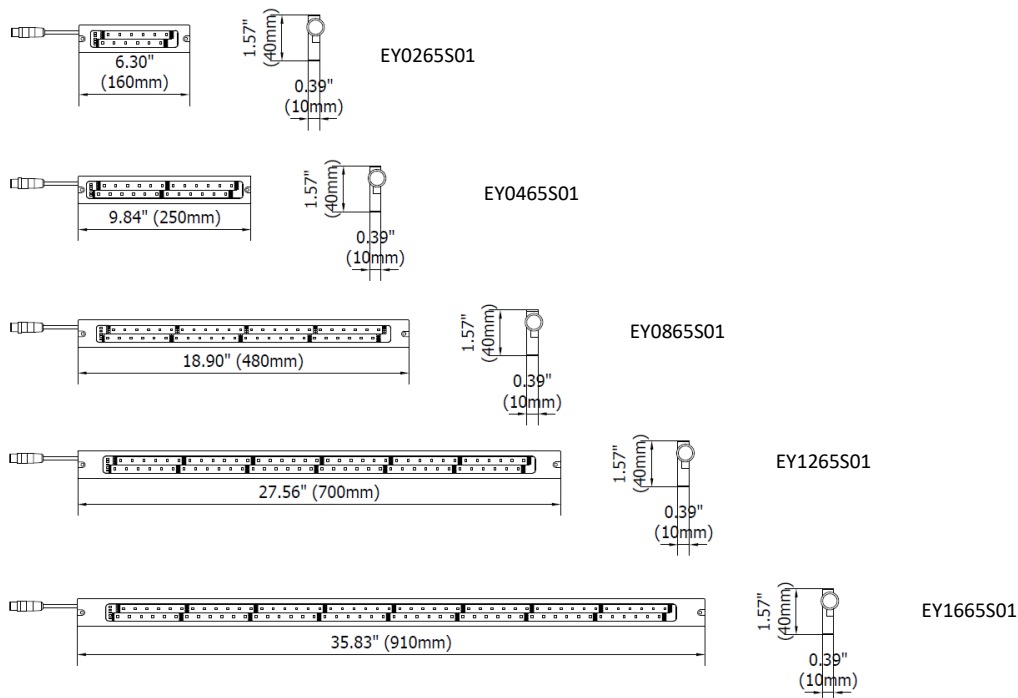
Slim Aluminum Housing, Vibration resistant, Polyurethane resin IP68, 24 Vdc integrated drivers, 10ft cord with pre-assembled M12 connector. DMX Standard protocol to easily interface with PLC.

Application:

Machining Centers, Industrial Automation, Robotics, Assembly work Benches to illuminate and thus enhance end product final test.

- RGB LED
- DMX 512 Protocol
- 24Vdc power supply
- Slim Anodized aluminum Housing 0.39”H, 1.37” D
- 5 Sizes achieving higher versatility
- polyurethane resin front protection IP68
- Swiveling mounting bracket or Magnetic Holding for Quick and adjustable installation options

DIMENSIONS



MECHANICAL FEATURES

Model	EY0265S01	EY0465S01	EY0865S01	EY1265S01	EY1665S01
Casing Material	Anodized extruded aluminum				
Side Enclosers	Anodized aluminum				
Surface Treatment	Standard: 10 microns of natural aluminum solution oxidation				
Front Glass	Transparent polyurethane resin				
Weight	0.29 lb (0,15 kg)	0.73 lb (0,35 kg)	1.17 lb (0,55 kg)	1.61 lb (0,75 kg)	2.05 lb (0,95 kg)
Protection Index	IP68				
Impact Resistance	1.00 N m/s				
Operating Temperature	04 °F (-20 °C) to +113 °F (+ 45 °C)				
Fixture	Chromium Plate Steel side brackets EYFX01				

ELECTRICAL FEATURES

Model	EY0265S01	EY0465S01	EY0865S01	EY1265S01	EY1665S01
Power Input	3 W	6 W	9 W	12 W	24 W
Power Supply	24 VDC +/- 5%				
Programmable Module	1	2	4	6	8
Protocol	DMX 512				
Electrical Connection	M 12-A 5P (M) connector 4 A				
Power Cord	PUR Cable 5 x 0.34 mm2 L.6.6 ft (2 m)				
Insulation Class	Class III (SELV)				
Efficiency Class	A/A+/A++/A+++ (Integrated LED module) compliant with UE Law No. 874/2012				

WIRING DIAGRAM

PUR Cable 5 x 0.34 mm2 L.6.6 ft (2 m)		Pin	Wire	Connection
	24Vdc	1	Brown	24VDC
	0Vdc/Ground	2	White	0 VDC / GND
	DMX +	3	Yellow	DMX +
	DMX -	4	Green	DMX -
	PO / PI Sync	5	Grey	PO / PI Sync




OPTICAL FEATURES

Model	EY0265S01	EY0465S01	EY0865S01	EY1265S01	EY1665S01
Type of LED	SMD5050 RGB	SMD5050 RGB	SMD5050 RGB	SMD5050 RGB	SMD5050 RGB
Number of LEDs	12	24	48	72	96
RED luminous flux	28 lm	56 lm	112 lm	168 lm	224 lm
GREEN luminous flux	50 lm	100 lm	200 lm	300 lm	400 lm
BLUE luminous flux	12 lm	24 lm	48 lm	72 lm	96 lm
Total luminous flux	90 lm	180 lm	360 lm	540 lm	720 lm
LED Life * (1)	36 000 h	36 000 h	36 000 h	36 000 h	36 000 h
Emission angle	120 °	120 °	120 °	120 °	120 °

* (1) reference test L70B50 @ Tc ≤149 ° F

Wavelength: R: 620 ~ 630nm / G: 515 ~ 525nm / B: 465 ~ 475nm

MOUNTING OPTIONS

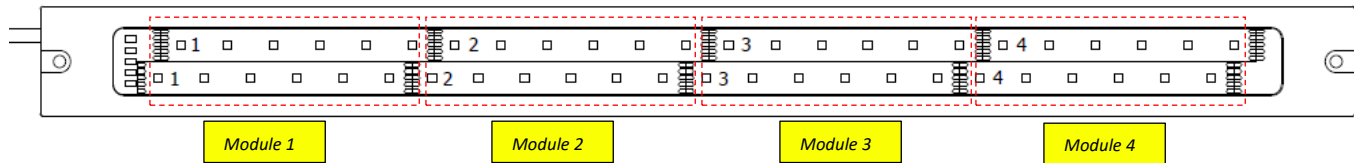
Product pictures	Description	Code product
	Robust, versatile and vibration resistant 90° angle adjustment bracket. Made of chrome-plated stainless steel. Suitable mainly for high-vibrating applications	EYFX01
	Product code includes a couple of brackets with M3 fixing screws and steel handle washers.	EYFX02
	Strong magnetic disc made of neodymium and high grip. Use along with EYFX01 brackets when you need to move the light frequently and to different positions. Suitable to use in high-vibrating applications.	B05

ORDER CODES

Model	Description
EY0265S01	EPSYLON RGB, 6.30"(160mm), 24 Vdc, 1 MODULE, Cable 6.5ft(2m) 5 awg Free Ends Wire
EY0465S01	EPSYLON RGB, 9.84"(250mm), 24 Vdc, 2 MODULES, Cable 6.5ft(2m) 5 awg Free Ends Wire
EY0865S01	EPSYLON RGB, 18.90"(480mm), 24 Vdc, 4 MODULES, Cable 6.5ft(2m) 5 awg Free Ends Wire
EY1265S01	EPSYLON RGB, 27.56"(700mm), 24 Vdc, 6 MODULES, Cable 6.5ft(2m) 5 awg Free Ends Wire
EY1665S01	EPSYLON RGB, 35.83"(910mm), 24 Vdc, 8 MODULES, Cable 6.5ft(2m) 5 awg Free Ends Wire
EY.FX01	BRACKET-SET KROMIUM-PLATED STEEL FOR EPSYLON SERIE
EYFX02	T-SLOT NUTS KIT ALLUMINIUM FOR EPSYLON SERIE
B05	MAGNETIC BASE WITH SCREW M5 Ø 1,18 x 0,35 inc.

DMX Programming Introduction

The Epsilon RGB lights programming is performed via **DMX 512** Protocol which allow to operate the multiple lighting functions of each module such as color changing, single color intensity, on/off color switch, color timing etc.

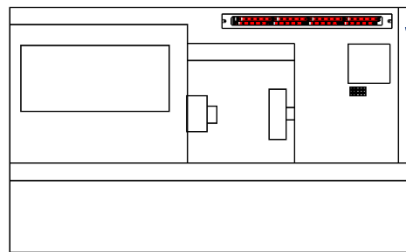


Each single module is programmed via DMX controller. The signal is unidirectional, meaning it only travels in one direction, from the controller or first module all the way to the last. Every single module can independently perform the following functions:

- Power on/off
- Shutdown
- Color Change
- Color Flushing
- Dimming
- Progressing

EPSYLON RGB signaling lights interfaced with MODBUS / DMX converters for the data transmission through RS-485 serial.

You also can visit <https://youtu.be/2-C-S83tGKl> to see the different function of the EPSYLON RGB in video.



Example of installation EPSYLON RGB to control machine production progress

Configuration Protocol MODBUS through serial transmission RS-485

