

# Cyclo IP65 Specifications

Specifications subject to change

## Physical

### 28 watt tube models

#### ***Cyclo IP65 02 analog, 28W tubes***

L x W x H . . . . . 1276 x 100 x 106 mm (50.3 x 3.9 x 4.2 in.)

Weight . . . . . 3.8 kg (8.4 lbs)

#### ***Cyclo IP65 02 DMX, 28W tubes***

L x W x H . . . . . 1276 x 100 x 106 mm (50.3 x 3.9 x 4.2 in.)

Weight . . . . . 4.4 kg (9.7 lbs)

#### ***Cyclo IP65 03 analog, 28W tubes***

L x W x H . . . . . 1276 x 100 x 106 mm (50.3 x 3.9 x 4.2 in.)

Weight . . . . . 4.3 kg (9.4 lbs)

#### ***Cyclo IP65 03 DMX, 28W tubes***

L x W x H . . . . . 1276 x 100 x 106 mm (50.3 x 3.9 x 4.2 in.)

Weight . . . . . 5.0 kg (11.0 lbs)

#### ***Cyclo IP65 04 analog, 28W tubes***

L x W x H . . . . . 1276 x 169 x 106 mm (50.3 x 6.7 x 4.2 in.)

Weight . . . . . 5.8 kg (12.8 lbs)

#### ***Cyclo IP65 04 DMX, 28W tubes***

L x W x H . . . . . 1276 x 169 x 106 mm (50.3 x 6.7 x 4.2 in.)

Weight . . . . . 7.2 kg (15.8 lbs)

### 54 watt tube models

#### ***Cyclo IP65 03 analog, 54W tubes***

L x W x H . . . . . 1276 x 169 x 106 mm (50.3 x 6.7 x 4.2 in.)

Weight . . . . . 6.4 kg (14.1 lbs)

#### ***Cyclo IP65 03 DMX, 54W tubes***

L x W x H . . . . . 1276 x 169 x 106 mm (50.3 x 6.7 x 4.2 in.)

Weight . . . . . 6.7 kg (14.8 lbs)

## Source

Approved light source: Osram T5 28W or 54W fluorescent tubes,  
according to model

Color authenticity . . . . . Guaranteed to 10 000 hours

Average tube life . . . . . 20 000 hours

## Dynamic effects

### **Cyclo IP65 04**

0-100% dimmable tubes. . . . . Daylight white (4000 K), red, green & blue

### **Cyclo IP65 03**

0-100% dimmable tubes. . . . . Red, green & blue

### **Cyclo IP65 02**

Color temperature control. . . . . 2700 - 6000 K

## Control and programming

### DMX models

Control method. . . . . USITT DMX 512 (1990)

Receiver . . . . . RS-485

Setting and addressing. . . . . DIP switch

Data input/ output. . . . . Through-wired, cable in/out via IP68 cable gland

Number of DMX channels . . . . . 4 (Cyclo IP65 04 DMX)

3 (Cyclo IP65 03 DMX)

2 (Cyclo IP65 02 DMX)

Stand-alone dynamic capability single and master/slave operation,  
programmed via DIP switch

### Analog models

Control method. . . . . Analog dimmer, 0-10 V positive, shared negative

Data input/ output. . . . . Through-wired, cable in/out via IP68 cable gland

Number of dimmer channels . . . . . 4 (Cyclo IP65 04 analog)

3 (Cyclo IP65 03 analog)

2 (Cyclo IP65 02 analog)

*If using Martin 516-II DMX to 0-10 V Converter:*

*Number of independently controllable dimming channels. . . . . 16*

*Channels required per independently controlled Cyclo 02 group . . . . . 2*

*Channels required per independently controlled Cyclo 03 group . . . . . 3*

*Channels required per independently controlled Cyclo 04 group . . . . . 4*

*Number of Cyclos per group (wired in series) . . . . . 1-10 (of same model)*

## Installation

Orientation . . . . . Any

Minimum free space around luminaire . . . . . 25 mm (1 inch)

## Mounting options

Surface mounting

Wire suspension

90° tilt mounting bracket (available as accessory: see "Accessories" on  
page 42)

## Power

AC power (EU configuration) . . . . . 200 - 250 V, 50 / 60 Hz  
Main fuse (EU configuration) . . . . . 1 AT, P/N 05020007  
AC input . . . . . Hard wired, cable entry via IP68 cable glands

## Typical current and power

### 28 watt tube models

#### **Cyclo IP65 02 analog, 28W tubes**

Typical power and current @ 230 V, 50 Hz . . . . . 0.28 A, 64 W

#### **Cyclo IP65 02 DMX, 28W tubes**

Typical power and current @ 230 V, 50 Hz . . . . . 0.29 A, 65 W

#### **Cyclo IP65 03 analog, 28W tubes**

Typical power and current @ 230 V, 50 Hz . . . . . 0.44 A, 98 W

#### **Cyclo IP65 03 DMX, 28W tubes**

Typical power and current @ 230 V, 50 Hz . . . . . 0.45 A, 99W

#### **Cyclo IP65 04 analog, 28 W tubes**

Typical power and current @ 230 V, 50 Hz . . . . . 0.52 A, 117 W

#### **Cyclo IP65 04 DMX, 28W tubes**

Typical power and current @ 230 V, 50 Hz . . . . . 0.56 A, 128 W

### 54 watt tube models

#### **Cyclo IP65 03 analog, 54W tubes**

Typical power and current @ 230 V, 50 Hz . . . . . 0.78 A, 179 W

#### **Cyclo IP65 03 DMX, 54W tubes**

Typical power and current @ 230 V, 50 Hz . . . . . 0.80 A, 181 W

*Allow for a deviation of +/- 10% from typical figures listed above.*

*Measurements made at nominal voltage. Local supply voltages can vary by +/- 10%.*

## Thermal

Maximum ambient temperature ( $T_a$ ) . . . . . 40° C (104° F)

Minimum ambient temperature when permanently powered  
(starting from and dimming at 1% output possible) . . . . . -20°C (-4°F)

Cooling . . . . . Convection

## Construction

Housing . . . . . Polyester-reinforced composite

Front cover . . . . . Unbreakable polycarbonate

Front cover clips . . . . . Stainless steel

Protection factor . . . . . IP65

Finish . . . . . Cream

## Approvals



European safety: EN 60598-1, EN 60598-2  
EMC: EN 60555-3. EN 55015

## Included items

User manual . . . . . P/N 35000170  
2 x rubber sealing washers for mounting screws

## Osram T5 fluorescent tubes (installed) according to model:

### ***Cyclo 02 28W models***

Warm white (col. temp. 2700 K) T5 tube . . . . . OSRAM T5 FH 28W/827  
Daylight white (col. temp. 6000 K) T5 tube . . . . . OSRAM T5 FH 28W/860

### ***Cyclo 03 28W models***

Red T5 tube . . . . . OSRAM T5 FH 28W/60  
Green T5 tube . . . . . OSRAM T5 FH 28W/66  
Blue T5 tube . . . . . OSRAM T5 FH 28W/67

### ***Cyclo 04 28W models***

Cool white (col. temp. 4000 K) T5 tube . . . . . OSRAM T5 FH 28W/840  
Red T5 tube . . . . . OSRAM T5 FH 28W/60  
Green T5 tube . . . . . OSRAM T5 FH 28W/66  
Blue T5 tube . . . . . OSRAM T5 FH 28W/67

### ***Cyclo 03 54W models***

Red T5 tube . . . . . OSRAM T5 FQ 54W/60  
Green T5 tube . . . . . OSRAM T5 FQ 54W/66  
Blue T5 tube . . . . . OSRAM T5 FQ 54W/67

## Cable fittings: DMX models

2 x M25 cable glands, IP68, metal, cable Ø 7-14 mm  
2 x M16 cable glands, IP68, metal, cable Ø 3.5 - 10 mm  
1 x M25 blanking plug, metal  
1 x M16 blanking plug, metal  
2 x flat neoprene seals for blanking plugs

## Cable fittings: analog models

2 x M25 cable glands, IP68, polyamide, cable Ø 8-12 mm  
2 x M16 cable glands, IP68, cable Ø 7-10 mm  
1 x M25 blanking plug, polyamide  
1 x M16 blanking plug, polyamide  
4 x flat neoprene seals for blanking plugs / cable glands

## Accessories

Mounting bracket, 90° tilt-adjustable, stainless steel:

100 mm (for Cyclo IP65 02 & Cyclo IP65 03 28W) . . . . . P/N 91611232

169 mm (for Cyclo IP65 04 & Cyclo IP65 03 54W) . . . . . P/N 91611233

Clear front cover:

100 mm (for Cyclo IP65 02 & Cyclo IP65 03 28W) . . . . . P/N 91611228

169 mm (for Cyclo IP65 04 & Cyclo IP65 03 54W) . . . . . P/N 91611230

Opal front cover:

100 mm (for Cyclo IP65 02 & Cyclo IP65 03 28W) . . . . . P/N 91611229

169 mm (for Cyclo IP65 04 & Cyclo IP65 03 54W) . . . . . P/N 91611231

120 Ohm, 0.25 W DMX termination resistor . . . . . P/N 04150308

Martin 516 II DMX to 0-10V Converter . . . . . P/N 90758225

## Ordering information\*

### 28 watt tube models

#### **Analog models, 2 x 28 W tubes, 230 V, 50/60 Hz**

Cyclo IP65 02 28 W C . . . . . P/N 90561100

Cyclo IP65 02 28 W O . . . . . P/N 90561101

#### **DMX models, 2 x 28 W tubes, 230 V, 50/60 Hz**

Cyclo IP65 02 28W DMX C . . . . . P/N 90561000

Cyclo IP65 02 28W DMX O . . . . . P/N 90561001

#### **Analog models, 3 x 28 W tubes, 230 V, 50/60 Hz**

Cyclo IP65 03 28 W C . . . . . P/N 90562100

Cyclo IP65 03 28 W O . . . . . P/N 90562101

#### **DMX models, 3 x 28 W tubes, 230 V, 50/60 Hz**

Cyclo IP65 03 28W DMX C . . . . . P/N 90562000

Cyclo IP65 03 28W DMX O . . . . . P/N 90562001

#### **Analog models, 4 x 28 W tubes, 230 V, 50/60 Hz**

Cyclo IP65 04 28 W C . . . . . P/N 90563100

Cyclo IP65 04 28 W O . . . . . P/N 90563101

#### **DMX models, 4 x 28 W tubes, 230 V, 50/60 Hz**

Cyclo IP65 04 28W DMX C . . . . . P/N 90563000

Cyclo IP65 04 28W DMX O . . . . . P/N 90563001

### 54 watt tube models

#### **Analog models, 3 x 54 W tubes, 230 V, 50/60 Hz**

Cyclo IP65 03 54W C . . . . . P/N 90565100

Cyclo IP65 03 54W O . . . . . P/N 90565101

#### **DMX models, 3 x 54 W tubes, 230 V, 50/60 Hz**

Cyclo IP65 03 54W DMX C . . . . . P/N 90565000

Cyclo IP65 03 54W DMX O . . . . . P/N 90565001

\*C and O denote clear and opal front cover models