GMR SMARTWAY



CYL Smart

Functionality modules

Cyl Smart Functionality modules

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Technical data

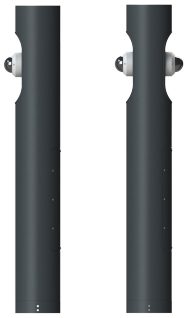
rev. 2025.04

Product codes:: **CYS**



Simple module

CYS_2_A



Single or dual camera module

CYS_2_B, CYS_2_C



Analog/digital audio distribution module

CYS_2_D, CYS_2_E

Compliance

CE EN40-5

Dimensions

Diameter:	219 mm
Height:	1.500 mm

Materials | Colours

Pole:	Hot-dip galvanized S235 steel - UNI EN 10219 - EN1461
Joints:	Aluminum die-casting
Frames:	Plastic
Screws and bolts:	AISI 304 stainless steel
Seal:	EPDM
Colour*:	GMR Dark, Dark green, Red, blue, GMR light, light green, orange

* based on the chosen configuration (Sky, City, Sunset e Geko)

Electrical connections

Data connection:	- Ethernet/Fibre cable (singlemode or multimode)
Power Supply:	- Smart system (line always on): 230 Vac
	- Lighting body power supply: 230 Vac

Audio Technical Specifications

Digital audio:

- 2 speakers with IP amplifier
- Power: 2x15W
- Frequency response: (-10 dB) 100-20000 Hz
- Impedance: 8 Ω
- Sound pressure level: 84 dB (1 W/1 m)
- Frequency resonance: 158 Hz
- Aperture angle (-6 dB): 114°/4000 Hz
- Magnetic induction: 1.0T
- Streaming protocol: RTP Multicast
- Network connection: RJ45 TCP/IP Network 10/100BaseTx

*Encoder with microphone per station
Module connection: Ethernet cable

Analog audio:

- 2 speakers
- Power: 2x15W
- Frequency response: (-10 dB) 100-20000 Hz
- Impedance: 8 Ω
- Sound pressure level: 84 dB (1 W/1 m)
- Frequency resonance: 158 Hz
- Aperture angle (-6 dB): 114°/4000 Hz
- Magnetic induction: 1.0T
- Module connection: PA 100V

Video surveillance technical specifications

Solution 1 (1 or 2 cameras)

- Resolution: 4MP
- Focal length: 2.8, 4, 6 mm
2.8 mm: H FOV: 109°, V FOV: 60°, D FOV: 131°
4 mm: H FOV: 88°, V FOV: 46°, D FOV: 105°
6 mm: H FOV: 53°, V FOV: 30°, D FOV: 61°

- Network Protocols: TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, WebSockets
- Network connection: RJ45 10M/100M self-adaptive Ethernet port
- Degree of protection: IP66
- Degree of shock resistance: IK08
- Power consumption: 8.5 W

Solution 2 (1 or 2 cameras)

- Resolution: 4MP
- Focal length: 3 mm
H FOV: 99°, V FOV: 55° D FOV: 115°

- Network Protocols: IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP
- Network connection: RJ-45 (10/100BASE-T)
- Degree of protection: IP66
- Degree of shock resistance: IK10
- Power consumption: 7.5W

Optional

Hotspot Wi-Fi (only if end module of composition):	- Wireless : Wi-Fi 6 - 2.4 GHz 802.11b/g/n/ax dual-chain, 5 GHz 802.11a/n/ac/ax dual-chain - Network connection: RJ45 10/100/1000 Ethernet ports, 1 SFP port - Operating temperature: -40°C to +70°C - Power consumption: 15 W - Antenna connector: RP-SMA female - Antenna integrated in top of pole

The information in the data sheet may be subject to variations and implementations; please check the latest news on www.gmrenlights.com • The pictures used are purely for information. Tolerance: size +/- 1% ; weight +/- 3%.

Cyl Smart Functionality modules

Protection cycles

GMR ENLIGHTS works with selected and processed materials to maximize performance and quality.

GALVANIZED STEEL

Protection of galvanized steel surfaces

The protection of the galvanized steel elements is achieved thanks to:

- Micro sandblasting;
- Phosphoric pickling bath at a ph level ranging from 1.5 to 3;
- Rinsing with demineralised water;
- First powder layer application;
- Kiln firing;
- Application of a final powder layer;
- Kiln roasting of the final powder layer at 180°C (356°F);
- Cooling.

DIE-CAST ALUMINIUM

Protection of die-cast aluminium surfaces

Lighting fixtures, brackets, pastoral, and die-cast accessories undergo a cycle of powder painting which creates a barrier against the corrosion of metal parts. Moreover this barrier makes the finished product comply with design specifications in terms of surface roughness, color and reflectance.

The cycle consists of the following steps:

- Micro sandblasting;
- Hot pickling bath in a zinc-based phosphodegreasing solution;
- Specific process for the preparation of surfaces before painting;
- Washing with water;
- Rinsing with demineralised water and subsequent drying;
- First bowder layer application followed by kiln baking at 180°;
- Final powder layer application using a High Durability product and final kiln roasting at 180°C (356°F).



Salt spray test

The top quality of such treatments is confirmed by salt spray tests performed in accordance with standard ISO 9227:2017 Neutral Salt Spray test (NSS).
The test was carried out for 8.000 hours at 35°C (95°F) and demostrated through the report test released.



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