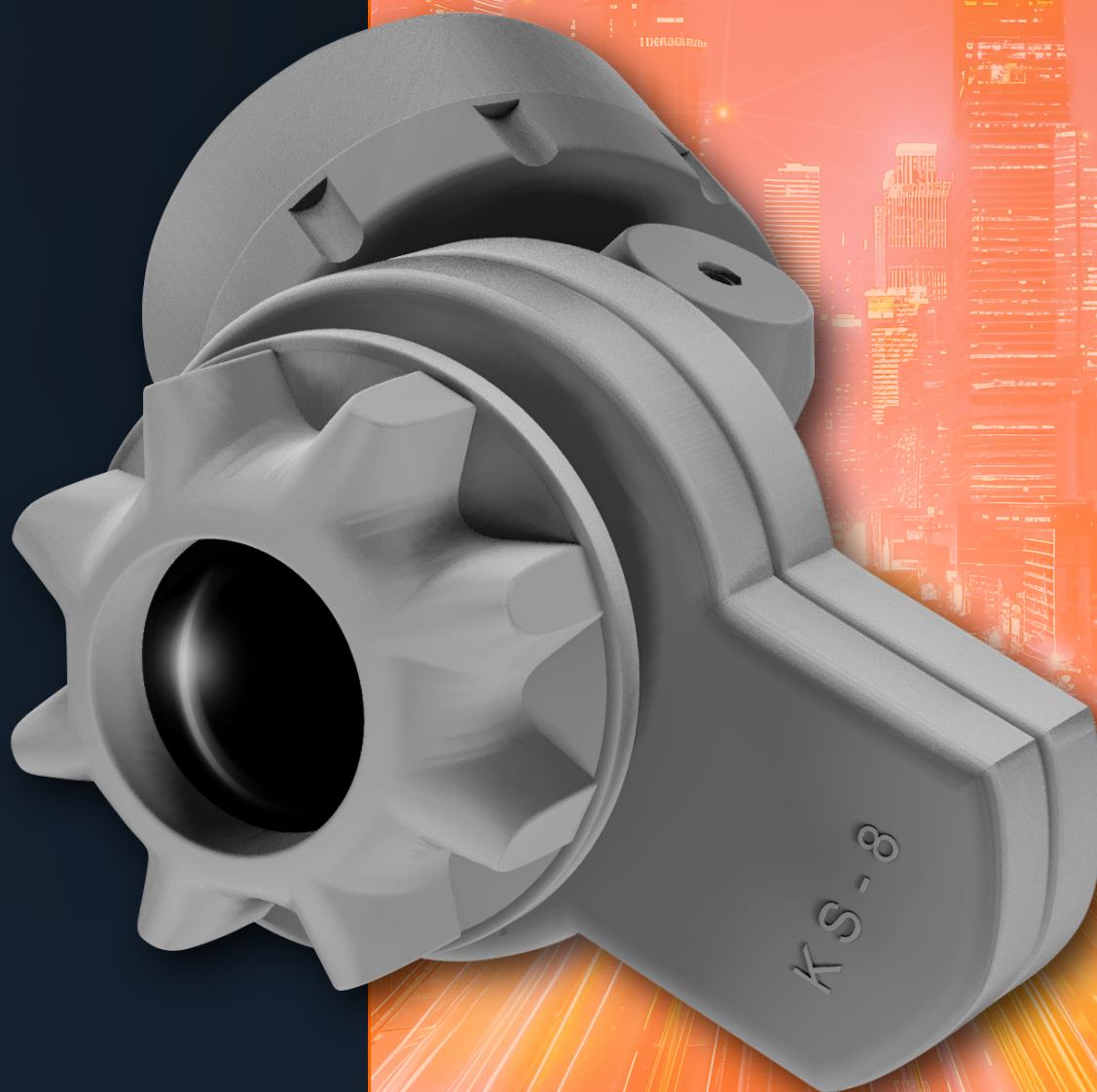


URBIO



KAMSSENS[®]

SENSORS

Elegant. Modern. Efficient.

Advanced Level: Control. Monitoring.
Innovation.

**TECHNICAL
SHEET**

TECHNICAL SPECIFICATION

FUNCTIONALITIES

- Adaptive control of public lighting using an AI-powered multisensor with up to 100 m detection range.
- Detection of vehicles and pedestrians, including movement tracking for dynamic light-level adjustment during night operation or low-light conditions.
- Monitoring of meteorological conditions (rain, ice, fog, snow) and automatic lighting flux adjustment to improve safety and energy efficiency.
- Real-time local processing for optimized street-lighting scenarios within the NEOS Lighting ecosystem.
- Integration with NEOS telemanagement for remote supervision, alerts, and event reporting.

MECHANICAL AND INSTALLATION DETAILS

Enclosure material	UV-resistant polycarbonate
Mounting	Standardized Zhaga connector
Dimensions	160 × 120 × 80 mm
Enclosure protection	IP66
Impact resistance	IK10
Electrical protection class	Class II

ELECTRICAL CHARACTERISTICS

Nominal supply voltage	12 VDC / 24 VDC
Operating current	140 mA @ 12 VDC; 70 mA @ 24 VDC
Power consumption	1.5 W
ESD protection	4 kV / 8 kV

COMMUNICATION

Communication protocols	RF 2.4 GHz, Bluetooth
Interfaces	DALI, DALI-2
Telemanagement integration	NEOS

OPERATING CONDITIONS

Operating temperature	−40 °C ... +60 °C
Humidity	max. 95%
Operating environment	Free of gases, vapors, dust, or active chemical substances
Duty cycle	100% (24 h/day, 7 days/week)

INTEGRATED SENSORS

Temperature sensor	−40 °C ... +90 °C
Tilt sensor	±90° on 3 axes
Light sensor	20–500 lux
Impact sensor	1–10 G
Noise sensor	60–120 dB
Proximity sensor	Detection range: 1–100 m; detection angle 180°; adjustable angle −80...+80°
Humidity sensor	1–95%

CONFIGURATION OPTIONS	
Model Code	Communication Variant
KMS – B – RF2.4	Bluetooth + RF 2.4 GHz

CERTIFICATIONS	
Safety Tests	SR EN 62368-1:2020 + A11:2020 + AC:2020
Electromagnetic Compatibility (EMC)	SR EN 55032:2015 + AC:2016 + A11:2020
	SR EN IEC 61000-3-2:2019
	SR EN 61000-6-3:2007 + A1:2011 + AC:2012
	SR EN 61000-3-3:2014 + A1:2019
	SR EN IEC 61000-6-1:2019
	SR EN 55035:2017
	SR EN 61000-4-2/-3/-4/-5/-6/-8/-11 (all revisions listed in source document)
Environmental Tests	SR EN 60068-2-1:2007
	SR EN 60068-2-2:2008
Impact Protection (IK)	SR EN 62262:2004
Ingress Protection (IP)	SR EN 60529:1995 + A1:2003 + A2:2015 + AC:2017 + AC:2019

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