

GAIN REAL-TIME DATA AND **MAKE INFORMED DECISIONS**

Organisations need to continually make informed decisions and gain funding or community support for road infrastructure, traffic and pedestrian management and, increasingly, electric vehicle charging options. But finding real-time, flexible, cost-effective smart city solutions that address data protection and privacy has been challenging, until now.

> mayflower SMART CONTROL

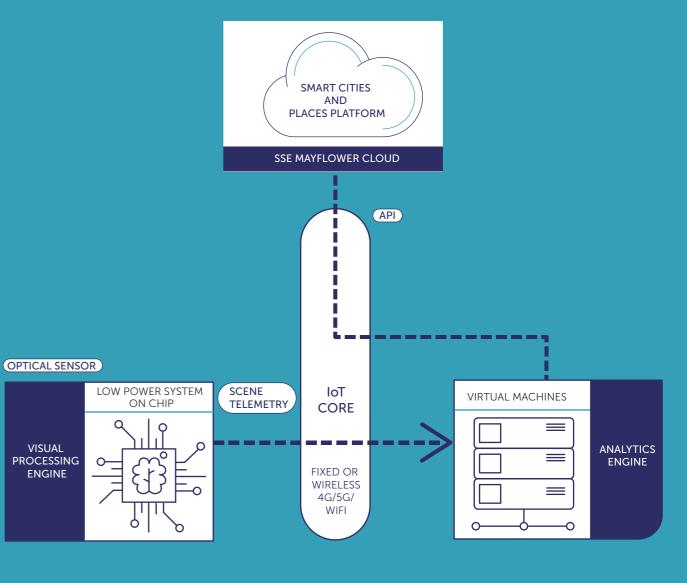


MAYFLOWER INSITE SENTINEL OPTICAL SENSOR

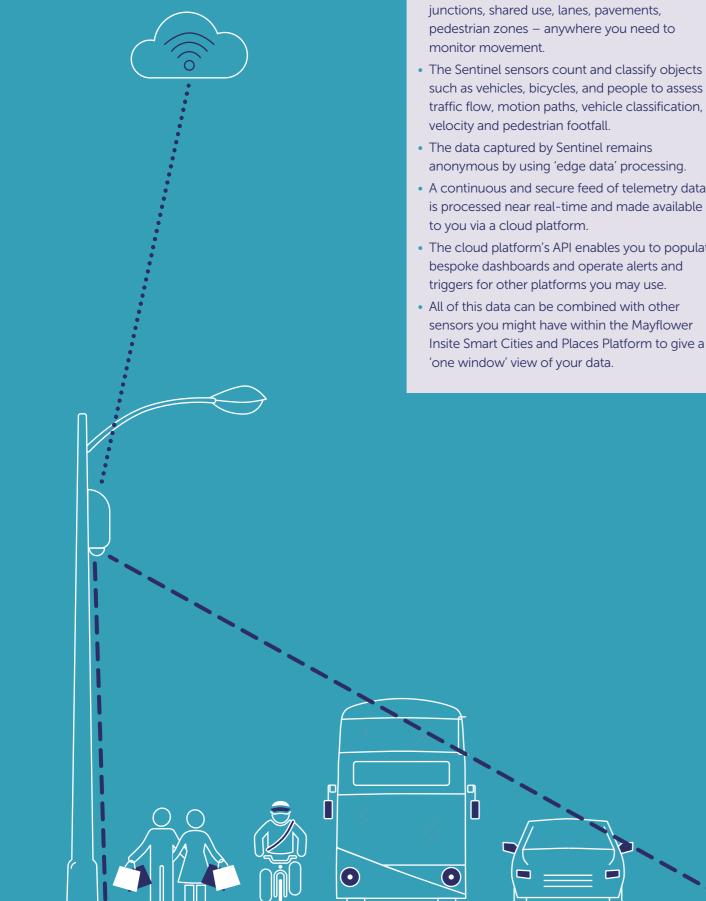
We've developed a smart city solution in partnership with Intel and AAEON Technology that is truly flexible, lightweight and easy to deploy: Mayflower Insite Sentinel optical sensor (Sentinel).

Sentinel is designed to work as a standalone device mounted to existing urban assets e.g. lighting columns or buildings. It works by sending anonymised telemetry of traffic in its field of view. The data is aggregated to obtain counts, traffic densities, patterns, and occupancy of urban spaces.

Using cutting-edge AI technologies, data protection and privacy is addressed by using edge processing and only transmitting meta data using MQTT protocols, instead of transmitting pictures or videos. This data can then be presented standalone through a cloud-based portal or integrated with our Mayflower Insite Smart Cities and Places platform, enabling you to combine, correlate, and compare near-real-time and historical data from a wide array of devices through one single platform view of customisable dashboards.



CLOUD PLATFORM



HOW SENTINEL OPTICAL SENSORS WORK

• Sentinel sensors will be installed at critical

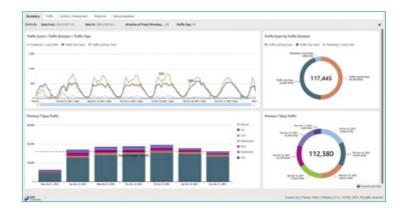
- A continuous and secure feed of telemetry data is processed near real-time and made available
- The cloud platform's API enables you to populate
- Insite Smart Cities and Places Platform to give a

SENTINEL TELEMETRY DATA

Key data points captured by Sentinel include traffic Or you might discover otherwise unknown popular flows and pedestrian 'flow paths'. These paths routes of travel, for example shortcuts that might be represent the direction of travel for detected objects. better served with adequate cycle lanes or pavements. This feature enables you to define flows of interest, for example the number of pedestrians arriving at the high street and entering the library.







MAYFLOWER SENTINEL CAPABILITIES

- ✓ Vehicle and pedestrian type classification
- ✓ Crowd density
- ✓ Pedestrian behaviour analytics
- ✓ Flow path counts, journey times and average speeds

MAYFLOWER INSITE

We provide smart street lighting controls and services through our Mayflower Insite Central Management System. With almost half a million units across the UK and Ireland, Mayflower is a leading name in the smart lighting market.

CONTACT US

Get in touch if you'd like to talk about how Mayflower Insite Sentinel can support you to make informed decisions. See our contact details on page 8.

- ✓ Automatic linking of paths across multiple sensors
- ✓ Real-time API
- ✓ Customisable dashboards
- ✓ And many more.

Our IoT sensor data capture capabilities include data from other sensors you may have such as; air quality monitoring, water level gully sensors, road surface temperature sensors, mood lighting and weather stations.

Mayflower Insite Sentinel Optical Sensor is our latest technology development and is available now.

DATA SHEET **OPTICAL SENSOR**





OPERATING SYSTEM

Windows Linux



Intel Movidius



RF INTERFACE

Cellular Wi-Fi/BT





PTZ Camera

20



System memory	SO-DIMM LPDDR4 8 GB	
Storage	Onboard eMMC 64 GB mSATA via M.2	
slot		
Operating system	Windows/Linux	
Cellular	LTE 4G (CAT4)	
Wi-Fi	802.11 b/g/n/ac	
Bluetooth	4.2	
VPU	2xIntel Movidius Myriad X, MA2485	
Power input	Male Connector	
M12 Connector	Connector RS-232	
M12 Connector	SDI-12	
Camera	Mini PTZ 5MP	
Rated voltage	80-264VAC	

EMC	IEC/EN 55024, IEC/EN 55032	
Radio (4G, EMC)	EN 301 489-1-52	
Radio (Wi-Fi, EMC)	EN 301 908-1	
Radio (4G)t	EN 301 489-1-17	
Radio (Wi-Fi)	EN 300 328	
Electrical safety	IEC/EN62368-1, IEC 60950-22	
FCC	Part15B	
Shock	IEC 60068-2-27	
Vibration	IEC 60068-2-6	
Enclosure IP	IEC 60529	
Enclosure IK	IEC 60068-2-75	
Camera	Mini PTZ 5MP	
Temperature	IEC 68-2-30	
Temperature	EN 61131-21 (94)	
Cold/hot start	IEC 68-2-14	
Humidity test	IEC 68-2-3	
Elexon charge code		

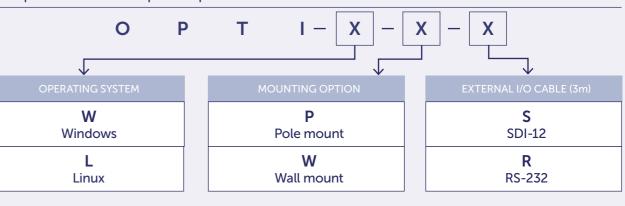
DATA SHEET **OPTICAL SENSOR**

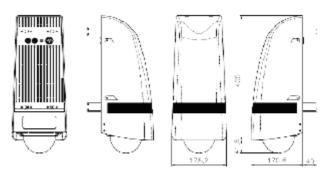
DIMENSIONS	
Dimensions	446x178x170mm
Weight-pole mount	3.5 kg
Weight-wall mount	4.5 kg
Mounting options	Wall/Pole



ORDER INFORMATION

Generate your specific part number using the convention shown below. Use only the numbers that correspond to the sensor option required





- POLE MOUNT WALL MOUNT -

MAYFLOWER OPTICAL SENSOR

An open platform that has edge compute power to run video analytics at the edge device and send meta data to a cloud platform for analytics.

POWERED BY INTEL VIDEO ACCELERATORS AND PTZ CAMERA



Processor System Memory Storage Operating System Video accelerator

SYSTEM

Intel Atom x7-E3950 8GB (expandable) 64GB (expandable) Windows/Linux Intel Movidius x 2

WIRELESS CONNECTIVITY

Cellular Wi-Fi Bluetooth LTE 4G (CAT4) 802.11 b/g/n/ac 4.2



EXTERNAL INPUTS

Power Input M12 Connector M12 Connector

80-264 VAC RS-232 SDI-12



Mini PTZ Field of View 5MP 4:3

DIMENSIONS

Dimensions Weight-pole mount Weight-wall mount Mounting options 446x178x170mm 3.5 kg 4.5 kg Wall/Pole

Operating Temp Impact IP -20 to 50°C IK08 IP65

To find out more about the Mayflower Optical Sensor, get in touch today 0345 076 7664 || enquiries@mayflowercontrol.com || mayflowercontrol.com FOR A BETTER WORLD OF ENERGY

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