

# Smart City Sensor TrafiOne

FLIR TrafiOne is an all-in-one sensor for traffic monitoring and dynamic traffic signal control. The FLIR TrafiOne uses thermal imaging and Wi-Fi technology to adapt traffic signals based on the presence detection of vehicles, bicycles, and pedestrians, even in total darkness or adverse weather. The sensor also generates high-resolution data for measuring travel times for different modes of transport and to improve traffic flows. TrafiOne also includes an HD video camera for additional visual support.

### THERMAL IMAGING SENSOR

Detects the presence of vehicles, bicyclists, and pedestrians in adverse weather and low light conditions.

### **WI-FI TECHNOLOGY**

Secure Wi-Fi communication allows for quick and easy configuration of detection zones

### FLIR ITS-IQ

TrafiOne information can be accessed by cloud-based data analysis solution FLIR ITS-IO.

## **SPECIFICATION**

## Brunctionalities   and bicycle presence detection (optional license) Wi-Fi monitoring (optional license)	SPECIFICATION		
Functionalities and bicycle presence detection (optional license) Wi-Fi monitoring (optional license) visual HD streaming video (optional license) we streaming video (optional license) S vehicle presence zones 8 pedestrian presence zones  Configuration Web page via secure Wi-Fi or Ethernet  Thermal Sensor  Resolution 160 × 120 pixels  Frame Rate 9 PFS  Detector type Focal Plane Array (FPA) uncooled VOx microbolometer LWIR sensor, 8–14 μm wavelength  Streaming Video RTSP  Compression H. 264, MPEG-4  Visual Sensor  Visual Sensor  Visual Sensor  Streaming video 8 RTSP  Streaming video 8 RTSP  Streaming video 8 RTSP  Compression 1, 264, MPEG-4, MJPEG  Compression 1, 264, MPEG-4, MJPEG  Mushing  Waterial Aluminum housing with PC GF10 sunshield  Bracket PA GF30 mounting clamps and aluminum tube  Power, Outputs, & Communication  Input power 12–42 V AC/DC  Power Consumption Average 6 M / Peak 7 W  Outputs 1, N/O and 1, N/C dry contacts direct16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface  Ethernet 10/100 MBps  PoE Poe PE A and PoE B  Powerline Communication Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface  Ethernet 10/100 MBps in EIRP <100 mW  Environmental  Shock & Vibration NEMA TS2 specs  Materials All weatherproof UV resistant  IR Rating IP67  Temperature Range 40°C to 60°C (-40°F to 140°F)  Regulatory  FCZ/EU Directives EMC 2014/30/EU, RoHS 2011/65/EU  Product-specific TrafiOne 195 TrafiOne 156  Poetection distance (depending Stop-Bar Detection*: 10–25m (33–65.5)  Foetection distance (depending Stop-Bar Detection*: 10–2	System Overview		
Configuration         Web page via secure Wi-Fi or Ethernet           Thermal Sensor           Frame Rate         9 FPS           Detector type         Focal Plane Array (FPA) uncooled VOx microbolometer LWIR sensor, 8–14 μm wavelength           Streaming Video         RTSP           Compression         H.264, MPEG-4           Visual Sensor         ————————————————————————————————————	Functionalities		
Resolution         160 × 120 pixels           Frame Rate         9 FPS           Detector type         Focal Plane Array (FPA) uncooled VOx microbolometer LWIR sensor, 8-14 µm wavelength           Streaming Video         RTSP           Compression         H.264, MPEG-4           Visual Sensor           Resolution         1080 × 1920 pixel HD colour CMOS           Frame rate         30 fps           Lens HFOV         95°           Streaming video         RTSP           Compression         h.264, MPEG-4, MJPEG           Housing         Housing           Material         Aluminum housing with PC GF10 sunshield           Bracket         PA GF30 mounting clamps and aluminum tube           Power, Outputs, & Communication         PA GF30 mounting clamps and aluminum tube           Input power         12-42 V AC/DC           Power Consumption         Average 6 W / Peak 7 W           Outputs         1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface           Ethernet         10/100 MBps           PoE         PoE A and PoE B           Powerline Communication         Up to 2 MBps via TI BPL2 EDGE interface           Wi-Fi         IEEE 802.11 type b, g., n EIRP < 100 mW	Detection zones	8 vehicle presence zones 8 pedestrian presence zones	
Resolution 160 × 120 pixels Frame Rate 9 FFS Detector type Focal Plane Array (FPA) uncooled VOx microbolometer LWIR sensor, 8–14 µm wavelength Streaming Video RTSP Compression H.264, MPEG-4  Visual Sensor  Resolution 1080 × 1920 pixel HD colour CMOS Frame rate 30 fps Lens HFOV 95° Streaming video RTSP Compression h.264, MPEG-4, MJPEG  Housing Housi	Configuration	Web page via secure Wi-Fi or Ethernet	
Frame Rate 9 FPS  Detector type Focal Plane Array (FPA) uncooled VOx microbolometer LWIR sensor, 8–14 µm wavelength Streaming Video RTSP  Compression H.264, MPEG-4  Visual Sensor  Resolution 1080 × 1920 pixel HD colour CMOS  Frame rate 30 fps  Lens HFOV 95°  Streaming video RTSP  Compression h.264, MPEG-4, MJPEG  Housing  Material Aluminum housing with PC GF10 sunshield  Bracket PA GF30 mounting clamps and aluminum tube  Power, Outputs, & Comminication  Input power 12–42 V AC/DC  Power Consumption Average 6 W / Peak 7 W  Outputs 1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface  Ethernet 10/100 MBps  POE PoE A and POE B  Powerline Communication Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface  Wi-Fi IEEE 802.11 type b, g, n EIRP < 100 mW  Etenvironmental  Shock & Vibration NEMA TS2 specs  Materials All weatherproof UV resistant  IR Rating IP67  Temperature Range -40°C to 60°C (-40°F to 140°F)  Regulatory  FCC/EU Directives EMC 2014/30/EU, ROHS 2011/65/EU  Product-specific TrafiOne 195 TrafiOne 156  Part number 10-7070 10-7075  HFOV 95° Stop-Bar Detection *: 0–15m (0–49.2ft) Stop-Bar Detection *: 10–20 m (33–65.56)  Fedestrian/bicycle presence: 0–12m (0–39ft) Pedestrian/bicycle presence: 10–20 m (33–65.56)	Thermal Sensor		
Detector type   Focal Plane Array (FPA) uncooled VOx microbolometer LWIR sensor, 8–14 μm wavelength Streaming Video   RTSP	Resolution	160 × 120 pixels	
Streaming Video RTSP Compression H.264, MPEG-4  Visual Sensor  Resolution 1080 × 1920 pixel HD colour CMOS Frame rate 30 fps Lens HFOV 95° Streaming video RTSP Compression h.264, MPEG-4, MJPEG  Housing Material Aluminum housing with PC GF10 sunshield Bracket PA GF30 mounting clamps and aluminum tube  Power, Outputs, & Communication Input power 12-42 V AC/DC Power Consumption Average 6 W / Peak 7 W Outputs 1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface Ethernet 10/100 MBps PoE PoE A and PoE B Powerline Communication  Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface Etter Betwirent   Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface  Etter Betwirent   EEE 802.11 type b, g, n EIRP < 100 mW  Environmental  Shock & Vibration NEMA TS2 specs Materials All weatherproof UV resistant IR Rating IPG7 Temperature Range -40°C to 60°C (-40°F to 140°F)  Regulatory  FCC/EU Directives EMC 2014/30/EU, RoHS 2011/65/EU  Product-specific TrafiOne 195 TrafiOne 156 Part number 10-7070 10-7075  HEOV 95° S6° Poetection distance (depending Stop-Bar Detection*: 0-12m (0-49.2ft) Stop-Bar Detection*: 10-25m (33-85.5f) Pedestrian/bicycle presence: 0-12m (0-39ft) Pedestrian/bicycle presence: 10-20 m (33-65.5f)	Frame Rate	9 FPS	
Compression     H.264, MPEG-4       Visual Sensor       Resolution     1080 × 1920 pixel HD colour CMOS       Frame rate     30 fps       Lens HFOV     95°       Streaming video     RTSP       Compression     h.264, MPEG-4, MJPEG       Housing     Housing       Material     Aluminum housing with PC GF10 sunshield       Bracket     PA GF30 mounting clamps and aluminum tube       Power, Outputs, & Comunication     PA GF30 mounting clamps and aluminum tube       Input power     12-42 V AC/DC       Power Consumption     Average 6 W / Peak 7 W       Outputs     1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface       Ethernet     10/100 MBps       PoE     PoE A and PoE B       Powerline Communication     Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface       Wi-Fi     IEEE 802.11 type b, g, n EIRP <100 mW	Detector type	Focal Plane Array (FPA) uncooled VOx microbolometer LWIR sensor, 8–14 μm wavelength	
Visual Sensor         Resolution       1080 × 1920 pixel HD colour CMOS         Frame rate       30 fps         Lens HFOV       95°         Streaming video       RTSP         Compression       h.264, MPEG-4, MJPEG         Housing         Material       Aluminum housing with PC GF10 sunshield         Bracket       PA GF30 mounting clamps and aluminum tube         Power, Outputs, & Communication         Input power       12–42 V AC/DC         Power Consumption       Average 6 W / Peak 7 W         Outputs       1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface         Ethernet       10/100 MBps         PoE       PoE A and PoE B         Powerline Communication       Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface         Wi-Fi       IEEE 802.11 type b, g, n EIRP <100 mW	Streaming Video	RTSP	
Resolution 1080 × 1920 pixel HD colour CMOS Frame rate 30 fps  Lens HFOV 95°  Streaming video RTSP  Compression h.264, MPEG-4, MJPEG  Housing  Material Aluminum housing with PC GF10 sunshield Bracket PA GF30 mounting clamps and aluminum tube  Power, Outputs, & Communication  Input power 12-42 V AC/DC Power Consumption Average 6 W / Peak 7 W  Outputs 1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface Ethernet 10/100 MBps  PoE PoE A and PoE B  Powerline Communication Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface  Wi-Fi IEEE 802.11 type b, g, n EIRP <100 mW  Environmental  Shock & Vibration NEMA T52 specs  Materials All weatherproof UV resistant IR Rating IP67  Temperature Range 40°C to 60°C (-40°F to 140°F)  Regulatory  FCC/EU Directives EMC 2014/30/EU, RoHS 2011/65/EU  Product-specific TrafiOne 195 TrafiOne 156  Part number 10-7070 10-7075  HFOV 95° 56°  Pedestrian/bicycle presence: 0-12m (0-39ft) Stop-Bar Detection*: 10-20 m (33-65.5)	Compression	H.264, MPEG-4	
Frame rate 30 fps  Lens HFOV 95°  Streaming video RTSP  Compression h.264, MPEG-4, MJPEG  Housing  Material Aluminum housing with PC GF10 sunshield  Bracket PA GF30 mounting clamps and aluminum tube  Power, Outputs, & Communication  Input power 12–42 V AC/DC  Power Consumption Average 6 W / Peak 7 W  Outputs 1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface  Ethernet 10/100 MBps  PoE PoE A and POE B  Powerline Communication Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface  Wi-Fi IEEE 802.11 type b, g, n EIRP <100 mW  Environmental  Shock & Vibration NEMA TS2 specs  Materials All weatherproof UV resistant  IR Rating IP67  Temperature Range -40°C to 60°C (-40°F to 140°F)  Regulatory  FCC/EU Directives EMC 2014/30/EU, ROHS 2011/65/EU  Product-specific TrafiOne 195 TrafiOne 156  Part number 10-7070 10-7075  HFOV 95°  Etherical Time Pedestrian/bicycle presence: 0-12m (0-49.2ft) Stop-Bar Detection*: 10–25m (33–85.5)  Poedestrian/bicycle presence: 10–20 m (33–65.5)	Visual Sensor		
Lens HFOV 95° Streaming video RTSP Compression h.264, MPEG-4, MJPEG  Housing Material Aluminum housing with PC GF10 sunshield Bracket PA GF30 mounting clamps and aluminum tube Power, Outputs, & Communication Input power 12–42 V AC/DC Power Consumption Average 6 W / Peak 7 W Outputs 1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface Ethernet 10/100 MBps POE PoE A and POE B Powerline Communication Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface Wi-Fi IEE8 02.11 type b, g, n EIRP <100 mW Environmental Shock & Vibration NEMA TS2 specs Materials All weatherproof UV resistant IR Rating IP67 Temperature Range -40°C to 60°C (-40°F to 140°F)  Regulatory FCC/EU Directives EMC 2014/30/EU, RoHS 2011/65/EU Product-specific TrafiOne 195 TrafiOne 156 Part number 10-7070 10-7075 HFOV 95° Detection distance (depending on installation height) Pedestrian/bicycle presence: 0-12m (0-39ft) Pedestrian/bicycle presence: 10-20 m (33-65.5)	Resolution	1080 × 1920 pixel HD colour CMOS	
Streaming video RTSP Compression h.264, MPEG-4, MJPEG  Housing  Material Aluminum housing with PC GF10 sunshield Bracket PA GF30 mounting clamps and aluminum tube  Power, Outputs, & Communication  Input power 12–42 V AC/DC Power Consumption Average 6 W / Peak 7 W  Outputs 1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 EDGE interface Ethernet 10/100 MBps PoE PoE PoE A and PoE B Powerline Communication Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface Wi-Fi IEEE 802.11 type b, g, n EIRP <100 mW  Environmental  Shock & Vibration NEMA TS2 specs Materials All weatherproof UV resistant IR Rating IP67 Temperature Range -40°C to 60°C (-40°F to 140°F)  Regulatory  FCC/EU Directives EMC 2014/30/EU, RoHS 2011/65/EU  Prod 10-7070 10-7075  HFOV 95° Detection distance (depending on installation height) Pedestrian/bicycle presence: 0-12m (0-39ft) Pedestrian/bicycle presence: 10-20 m (33-65.5)	Frame rate	30 fps	
Compression h.264, MPEG-4, MJPEG  Housing  Material Aluminum housing with PC GF10 sunshield Bracket PA GF30 mounting clamps and aluminum tube  Power, Outputs, & Communication  Input power 12–42 V AC/DC  Power Consumption Average 6 W / Peak 7 W  Outputs 1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 EDGE interface  Ethernet 10/100 MBps  PoE A and PoE B  Powerline Communication Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface  Wi-Fi IEEE 802.11 type b, g, n EIRP <100 mW  Environmental  Shock & Vibration NEMA TS2 specs  Materials All weatherproof UV resistant IR Rating IP67  Temperature Range -40°C to 60°C (-40°F to 140°F)  Regulatory  FCC/EU Directives EMC 2014/30/EU, RoHS 2011/65/EU  Product-specific TrafiOne 195 TrafiOne 156  Part number 10-7070 10-7075  HFOV 95°  Detection distance (depending Stop-Bar Detection*: 0-15m (0-49.2ft) on installation height) Pedestrian/bicycle presence: 0-12m (0-39ft) Pedestrian/bicycle presence: 10-20 m (33-65.56)	Lens HFOV	95°	
Housing         Material       Aluminum housing with PC GF10 sunshield         Bracket       PA GF30 mounting clamps and aluminum tube         Power, Outputs, & Communication         Input power       12–42 V AC/DC         Power Consumption       Average 6 W / Peak 7 W         Outputs       1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface         Ethernet       10/100 MBps         PoE       PoE A and PoE B         Powerline Communication       Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface         Wi-Fi       IEEE 802.11 type b, g, n EIRP <100 mW	Streaming video	RTSP	
Material       Aluminum housing with PC GF10 sunshield         Bracket       PA GF30 mounting clamps and aluminum tube         Power, Outputs, & Communication         Input power       12-42 V AC/DC         Power Consumption       Average 6 W / Peak 7 W         Outputs       1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface         Ethernet       10/100 MBps         POE       POE A and POE B         Powerline Communication       Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface         Wi-Fi       IEEE 802.11 type b, g, n EIRP <100 mW         Environmental         Shock & Vibration       NEMA TS2 specs         Materials       All weatherproof UV resistant         IR Rating       IP67         Temperature Range       -40°C to 60°C (-40°F to 140°F)         Regulatory       FC/EU Directives       EMC 2014/30/EU, RoHS 2011/65/EU         Product-specific       TrafiOne 195       TrafiOne 156         Part number       10-7070       10-7075         HFOV       95°       56°         Detection distance (depending on installation height)       Stop-Bar Detection*: 0-15m (0-49.2ft)       Stop-Bar Detection*: 10-25m (33-82 ft)         Pedestrian/bicycle presence: 0-12m (0-39ft)       Pedestrian/bicycle pr	Compression	h.264, MPEG-4, MJPEG	
Bracket       PA GF30 mounting clamps and aluminum tube         Power, Outputs, & Communication         Input power       12–42 V AC/DC         Power Consumption       Average 6 W / Peak 7 W         Outputs       1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface         Ethernet       10/100 MBps         PoE       PoE A and PoE B         Powerline Communication       Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface         Wi-Fi       IEEE 802.11 type b, g, n EIRP <100 mW	Housing		
Power, Outputs, & Communication   Input power   12–42 V AC/DC	Material	Aluminum housing with PC GF10 sunshield	
Input power 12–42 V AC/DC  Power Consumption Average 6 W / Peak 7 W  Outputs 1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface  Ethernet 10/100 MBps  POE POE A and POE B  Powerline Communication Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface  Wi-Fi IEEE 802.11 type b, g, n EIRP <100 mW  Environmental  Shock & Vibration NEMA TS2 specs  Materials All weatherproof UV resistant  IR Rating IP67  Temperature Range -40°C to 60°C (-40°F to 140°F)  Regulatory  FCC/EU Directives EMC 2014/30/EU, RoHS 2011/65/EU  Product-specific TrafiOne 195 TrafiOne 156  Part number 10-7070 10-7075  HFOV 95° 56°  Detection distance (depending on installation height) Pedestrian/bicycle presence: 0−12m (0−39ft) Pedestrian/bicycle presence: 10−20 m (33−65.5)	Bracket	PA GF30 mounting clamps and aluminum tube	
Power Consumption       Average 6 W / Peak 7 W         Outputs       1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface         Ethernet       10/100 MBps         POE       POE A and POE B         Powerline Communication       Up to 2 MBps via TI BPL2 EDGE interface         Wi-Fi       IEEE 802.11 type b, g, n EIRP <100 mW	Power, Outputs, & Communica	tion	
Outputs       1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface         Ethernet       10/100 MBps         POE       POE A and POE B         Powerline Communication       Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface         Wi-Fi       IEEE 802.11 type b, g, n EIRP <100 mW         Environmental         Shock & Vibration       NEMA TS2 specs         Materials       All weatherproof UV resistant         IR Rating       IP67         Temperature Range       -40°C to 60°C (-40°F to 140°F)         Regulatory       FCC/EU Directives         FCC/EU Directives       EMC 2014/30/EU, RoHS 2011/65/EU         Product-specific       TrafiOne 195       TrafiOne 156         Part number       10-7070       10-7075         HFOV       95°       56°         Detection distance (depending on installation height)       Stop-Bar Detection*: 10-25 m (33-82 ft)       Pedestrian/bicycle presence: 0-12m (0-39ft)       Pedestrian/bicycle presence: 10-20 m (33-65.5)	Input power	12–42 V AC/DC	
PoE   PoE A and PoE B   Powerline Communication   Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface   Wi-Fi   IEEE 802.11 type b, g, n EIRP <100 mW   Environmental	Power Consumption	Average 6 W / Peak 7 W	
Ethernet 10/100 MBps  PoE PoE A and PoE B  Powerline Communication Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interface  Wi-Fi IEEE 802.11 type b, g, n EIRP <100 mW  Environmental  Shock & Vibration NEMA TS2 specs  Materials All weatherproof UV resistant IR Rating IP67  Temperature Range -40°C to 60°C (-40°F to 140°F)  Regulatory  FCC/EU Directives EMC 2014/30/EU, RoHS 2011/65/EU  Product-specific TrafiOne 195 TrafiOne 156  Part number 10-7070 10-7075  HFOV 95° 56°  Detection distance (depending on installation height) Pedestrian/bicycle presence: 0-12m (0-39ft) Pedestrian/bicycle presence: 10-20 m (33-65.55)	Outputs	1 N/O and 1 N/C dry contacts direct16 N/C dry contacts via TI BPL2 or TI BPL2 EDGE interface	
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EnvironmentalShock & VibrationNEMA TS2 specsMaterialsAll weatherproof UV resistantIR RatingIP67Temperature Range-40°C to 60°C (-40°F to 140°F)RegulatoryFCC/EU DirectivesEMC 2014/30/EU, RoHS 2011/65/EUProduct-specificTrafiOne 195TrafiOne 156Part number10-707010-7075HFOV95°56°Detection distance (depending on installation height)Stop-Bar Detection*: 0-15m (0-49.2ft)Stop-Bar Detection*: 10-25m (33-82 ft)Pedestrian/bicycle presence: 0-12m (0-39ft)Pedestrian/bicycle presence: 10-20 m (33-65.55)	Powerline Communication	Up to 2 MBps via TI BPL2 or TI BPL2 EDGE interf	ace
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Materials IR Rating IP67 Temperature Range -40°C to 60°C (-40°F to 140°F)  Regulatory FCC/EU Directives EMC 2014/30/EU, RoHS 2011/65/EU  Product-specific TrafiOne 195 Part number 10-7070 10-7075  HFOV 95° Detection distance (depending on installation height) All weatherproof UV resistant IP67  To 140°F)  EMC 2014/30/EU, RoHS 2011/65/EU  TrafiOne 195 TrafiOne 156  10-7075  56° Stop-Bar Detection*: 0-15m (0-49.2ft) Pedestrian/bicycle presence: 0-12m (0-39ft) Pedestrian/bicycle presence: 10-20 m (33-65.55)	Environmental		
IR Rating IP67  Temperature Range -40°C to 60°C (-40°F to 140°F)  Regulatory  FCC/EU Directives EMC 2014/30/EU, RoHS 2011/65/EU  Product-specific TrafiOne 195 TrafiOne 156  Part number 10-7070 10-7075  HFOV 95° 56°  Detection distance (depending on installation height) Stop-Bar Detection*: 0–15m (0–49.2ft) Pedestrian/bicycle presence: 0–12m (0–39ft) Pedestrian/bicycle presence: 10–20 m (33–65.55)	Shock & Vibration	NEMA TS2 specs	
IR Rating IP67  Temperature Range -40°C to 60°C (-40°F to 140°F)  Regulatory  FCC/EU Directives EMC 2014/30/EU, RoHS 2011/65/EU  Product-specific TrafiOne 195 TrafiOne 156  Part number 10-7070 10-7075  HFOV 95° 56°  Detection distance (depending on installation height) Stop-Bar Detection*: 0–15m (0–49.2ft) Pedestrian/bicycle presence: 10–20 m (33–65.55)	Materials	All weatherproof UV resistant	
RegulatoryFCC/EU DirectivesEMC 2014/30/EU, RoHS 2011/65/EUProduct-specificTrafiOne 195TrafiOne 156Part number10-707010-7075HFOV95°56°Detection distance (depending on installation height)Stop-Bar Detection*: 0-15m (0-49.2ft)Stop-Bar Detection*: 10-25m (33-82 ft)Pedestrian/bicycle presence: 0-12m (0-39ft)Pedestrian/bicycle presence: 10-20 m (33-65.5)	IR Rating	IP67	
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HFOV 95° 56°  Detection distance (depending on installation height) Stop-Bar Detection*: 0–15m (0–49.2ft) Stop-Bar Detection*: 10–25m (33–82 ft) Pedestrian/bicycle presence: 0–12m (0–39ft) Pedestrian/bicycle presence: 10–20 m (33–65.5)	Product-specific	TrafiOne 195	TrafiOne 156
Detection distance (depending on installation height)  Stop-Bar Detection*: 0–15m (0–49.2ft) Stop-Bar Detection*: 10–25m (33–82 ft) Pedestrian/bicycle presence: 0–12m (0–39ft) Pedestrian/bicycle presence: 10–20 m (33–65.5	Part number	10-7070	10-7075
on installation height) Pedestrian/bicycle presence: 0–12m (0–39ft) Pedestrian/bicycle presence: 10–20 m (33–65.5	HFOV	95°	56°
	Detection distance (depending	Stop-Bar Detection*: 0–15m (0–49.2ft)	Stop-Bar Detection*: 10–25m (33–82 ft)
Installation height 3.5–6 m (11.4–19.6 ft) 5.5–8 m (18–26 ft)		Pedestrian/bicycle presence: 0–12m (0–39ft)	Pedestrian/bicycle presence: 10–20 m (33–65.5ft)
	Installation height	3.5–6 m (11.4–19.6 ft)	5.5–8 m (18–26 ft)

<sup>\*</sup>Recommended for 2 lanes only



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