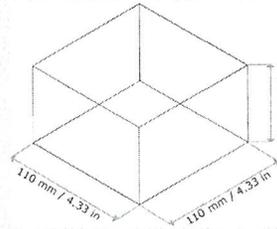


Technical Data

Dimensions:



Output (digits):	6-ph port for LEDI; 1-5 digits
Output (24 V):	2 x 250 mA / 24 V (e.g. for a relay)
Casing colour:	Grey
Ingress Protection:	IP66
Supply voltage range:	15 to 24 V DC
Ambient conditions:	-25 to 60 °C (-13 to 140 °F) 10 to 90% RH (non-condensing)
Storage temperature:	-40 to 70 °C (-40 to 158 °F)

Mounting

The MAMO2.0 is usually preinstalled in delivered signs.

Cabling

- Recommended cable for bus connection: NYM-J 4x1.5 mm² / AWG15 (A05VV-U 4x1.5 mm² / AWG15)
- Recommended cable for connection to LESY2.0 (no brightness control via IVIS): CEXT2.01M (200808; provided by INDECT)
- Recommended cable for connection to LEDI2.0: CLEDI2.01M (200807; provided by INDECT)
- Recommended cable for connection to TEMO: CEXT2.01M (200808; provided by INDECT)

Note: Other cable types can be tested for suitability by INDECT upon request.

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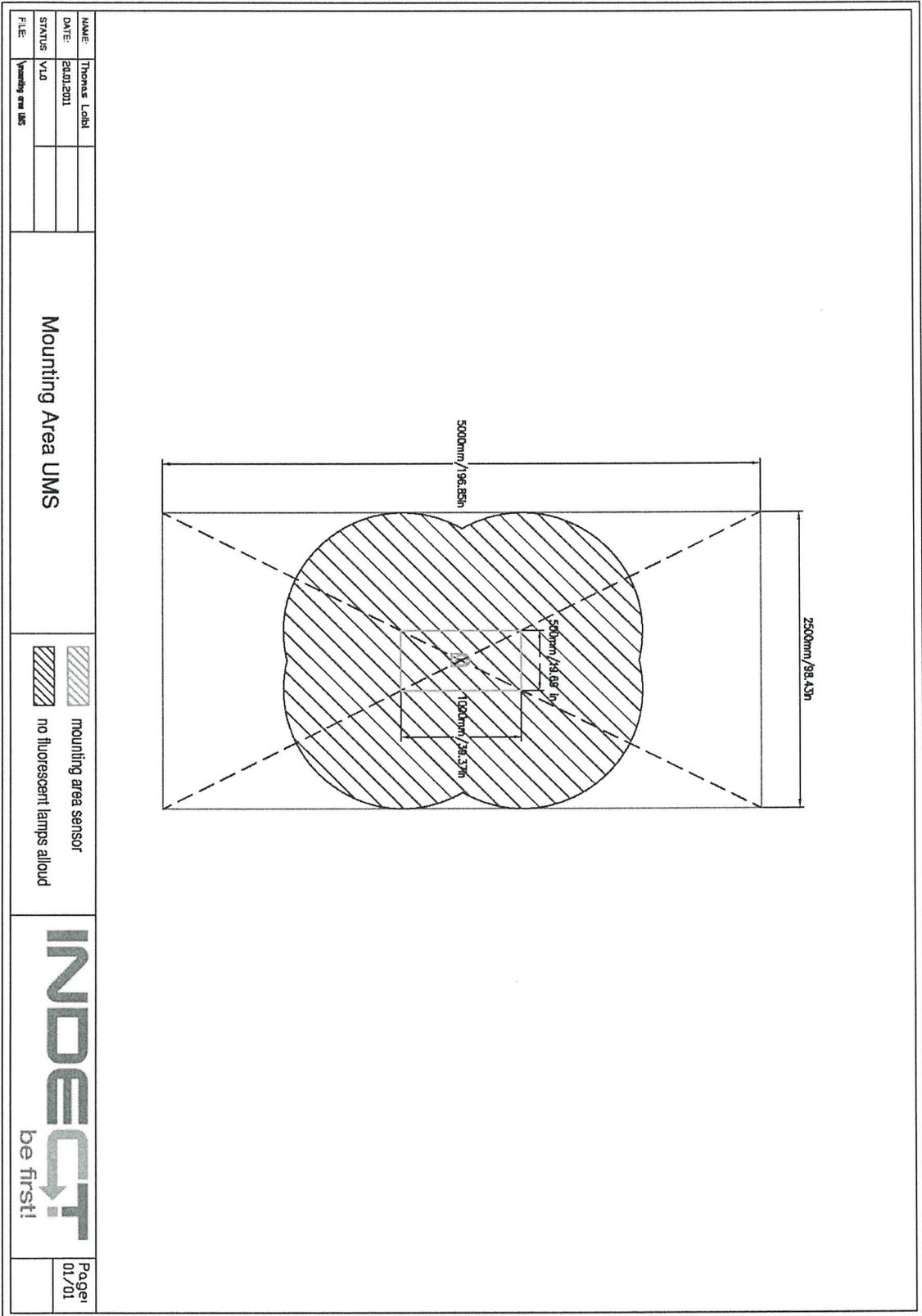
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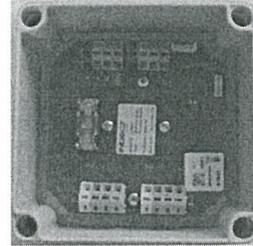




MUMO - Multifunction Module

Article number: 100803

Picture: Multifunction Module without cover
(actual item may differ from photo)



Description

The Multifunction Module is connected to the INDECT bus and can be configured in 2 ways:

- As an Output Module to control LED Symbols (LESY) (without brightness control via software but manual brightness control), LED Text Modules (TEMO) and simple 3rd party signs or other devices via a 24 V DC relay
- As an Input Module to integrate vehicle counting devices (e.g. loop detectors), or to connect fire alarm systems or building management systems which can give signals to the INDECT system (causing a certain configured event)

The MUMO is CE and EMC certified and has been developed and produced in compliance with ISO 9001.

Advantages

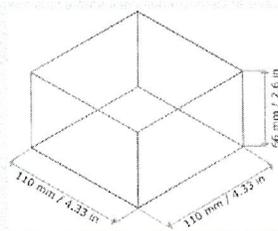
- Configurable as Input Module or Output Module
- Control of signs without long cable ducts
- Controls up to 2 LESY, TEMO or simple signs as Output Module
- Controls any device via a 24 V DC relay
- Controls barriers (in connection with optional software module **Barrier Control**)
- Power supply of the signs either via the sensor bus or via additional power supplies

Commercial Data

Article name	Article number	Customs tariff number	Weight per unit
MUMO Multifunction Module, can be used as input module (for example to integrate counting devices) or output module (for example, to control other devices via a 24 V DC relay or simple 3rd party signs). 2 inputs or outputs; IP66	100803		0.215 kg (0.47 lbs)

Technical Data

Dimensions:



Inputs:	2 (+/- counting input)
Outputs:	2x250 mA / 24 V (for LESY, TEMO, relay etc.)
Casing colour:	Grey
Ingress Protection:	IP66
Supply voltage range:	15 to 24 V DC
Ambient conditions:	-25 to 60 °C (-13 to 140 °F) 10 to 90% RH (non-condensing)
Storage temperature:	-40 to 70 °C (-40 to 158 °F)

Mounting

The Multifunction Module can be mounted on walls, in cabinets, in signs etc.

Cabling

- Recommended cable for bus connection: NYM-J 4x1.5 mm² / AWG15 (A05VV-U 4x1.5 mm² / AWG15)
- Recommended cable for input connection (e.g. to loop detector): 2-pole YSCH 2x0.6 mm² / AWG19
- Recommended cable for output connection (e.g. to LESY or TEMO): CABL 03 cable 3ph (100809; provided by INDECT)

Note: Other cable types can be tested for suitability by INDECT upon request.

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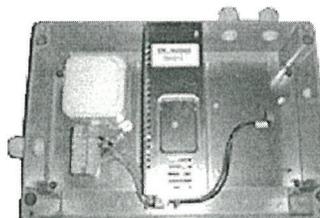
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POSU - Power Supply Module

Article number: 100805

Picture: Power Supply Module without cover (actual items may differ from photos).



Description

The Power Supply Module supplies INDECT sensors, Multifunction Modules, Master Modules, LED Symbols and all other components connected to the bus with power. The Power Supply Module provides up to 90 bus users with 24 V.

Advantages

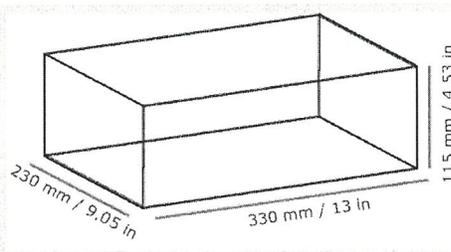
- Power supply support of the Communication Module (COMO)

Commercial Data

Article name	Article number	Customs tariff number	Weight per unit
Project Articles			
POSU Additional power supply to power up to 180 UMS per COMO (see COMO); IP65	100805		5.2 kg (11.45 lbs)
Replacement Articles			
Power Supply Power supply unit to be installed in COMO or POSU	100832		

Technical Data

Dimensions:



Input power:	100 - 120 VAC/5 A 200 - 240 VAC/2.5 A
Output power:	24 VDC/10 A
Casing colour:	Grey

Ingress Protection:	IP65
Ambient conditions:	-25 to 60 °C (-13 to 140 °F) 10 to 90% RH (non-condensing)
Storage temperature:	-40 to 70 °C (-40 to 158 °F)

Mounting

The Power Supply Module can be mounted on walls, in cabinets etc.

- Recommended anchors/screws for wall mounting: at least 6 mm (1/4") anchors/screws

Cabling

- Recommended cable for input: standard cable (e.g. NYM-J 2x1.5 mm² / AWG15 (A05VV-U 2x1.5 mm² / AWG15))
Note: Comply with local standards and requirements!
- Recommended cable for output: NYM-J 2x1.5 mm² / AWG15 (A05VV-U 2x1.5 mm² / AWG15)

Note: Other cable types can be tested for suitability by INDECT upon request.

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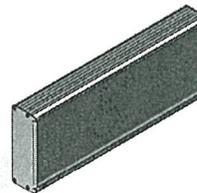
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Profile Sign IP65

Picture: Sample sign
(actual item may differ from photo)



Description

INDECT signs make parking guidance an easy task in car parks and open air parking. Our new profile sign concept is based on a flat and sturdy IP65 sign profile that can be equipped with manifold modules.

For **customer-specific signs**, INDECT provides a great variety of LED modules (arrows, digits, symbols, LED matrix etc.) that can be combined with backlit plexiglass text panels and installed in the high-quality aluminium frame profile of the sign to cope with any possible guidance task, ranging from main entry, level, aisle signs to special information displays. For a list of INDECT LED modules to be installed in a sign for customer-specific preferences, see below.

For standard parking situations, INDECT provides **standard sign layouts** (see below) in the same rack that shall replace our LEBO (Led Boxes).

For larger cabinet signs, see the data sheet **Cabinet Sign IP65**.

Advantages

- Flat and sturdy sign rack - only 80 mm deep and up to 6 m long
- Great variety of LED modules and LED digits to be combined
- Standard layouts or according to customer preferences
- Double-sided signs through back-to-back installation (160 mm deep)
- Rack profile colour and backlit text panel colour according to customer preferences
- Backlight via fluorescent lamps or optionally via 24V LED stripes
- Optimal visibility through backlight and transparent text panel
- Easy maintenance
- LED modules protected by transparent front plexi
- Fast installation in manifold ways
- IP65

Commercial Data

Standard Sign Layouts

The following signs can be ordered directly:

Article name	Article number	Customs tariff number	Weight per unit
LEBO2.0 01 LED box 1x1 digit green; WxHxD: 150 x 241 x 80 mm; complete sign excl. installation material, IP65; to be connected to the INDECT bus	100727		1.9 kg (4.2 lbs)

<p>LEBO2.0 02 LED box 1x2 digits green/green-red cross; WxHxD: 241 x 241 x 80 mm; complete sign excl. installation material, IP65; to be connected to the INDECT bus</p>		100728	2.3 kg (5 lbs)
<p>LEBO2.0 03 LED box 1x3 digits green/green/green-red cross; WxHxD: 320 x 241 x 80 mm; complete sign excl. installation material, IP65; to be connected to the INDECT bus</p>		100729	2.7 kg (6 lbs)
<p>LEBO2.0 04 LED box 1x2 digits green/green/green/green-red cross; WxHxD: 400 x 241 x 80 mm; complete sign excl. installation material, IP65; to be connected to the INDECT bus</p>		100730	3.1 kg (6.8 lbs)
<p>LEBO2.0 AC LED box 1x1 LESY Arrow/Cross, single-sided; WxHxD: 241 x 241 x 80 mm; complete sign excl. installation material, IP65; to be connected to the INDECT bus. Indicate arrow direction when ordering.</p>		100731	2.3 kg (5 lbs)
<p>LEBO2.0 AC2 LED box Arrow/Cross + 2 digits green; WxHxD: 480 x 241 x 80 mm; complete sign excl. installation material, IP65; to be connected to the INDECT bus. Indicate arrow direction when ordering.</p>		100732	tba
<p>LEBO2.0 AC3 LED box Arrow/Cross + 3 digits green; WxHxD: 600 x 241 x 80 mm; complete sign excl. installation material, IP65; to be connected to the INDECT bus. Indicate arrow direction when ordering.</p>		100733	tba
<p>LEBO 3WAY LED box 1x1 LESY2.0 3-way arrow/cross, single-sided; WxHxD: 241 x 241 x 80 mm; complete sign excl. installation material, IP65; to be connected to the INDECT bus</p>		100734	tba
Standard Matrix Signs			
<p>LEBO2.0 Matrix2 LED box with 2 P6 LED matrix displays: 192x196 mm / 32x32 RGB LED matrix surface (WxH); complete sign excl. installation material, IP65; to be connected to the INDECT bus</p>		100735	tba



LEBO2.0 Matrix3 LED box with 3 P6 LED matrix displays: 288x196 mm / 48x32 RGB LED matrix surface (WxH); complete sign excl. installation material, IP65; to be connected to the INDECT bus		100736		tba
LEBO2.0 Matrix4 LED box with 4 P6 LED matrix displays: 384x196 mm / 64x32 RGB LED matrix surface (WxH); complete sign excl. installation material, IP65; to be connected to the INDECT bus		100737		tba
Standard Reservation Sign				
LEBO2.0 Reservation LED box with 3 P8 LED matrix displays: 732x122 mm / 96x16 RGB LED matrix surface (WxH); complete sign excl. installation material, IP65; to be connected to the INDECT bus; backlit plexi text panel, transparent plexi at front		100738		tba

Customer-Specific Sign Layouts

Please refer to the individual components and data sheets that can be installed in our custom-tailored signs:

- **LESY¹**
- **LESY2.0**
- **LEDI**
- **LEDI2.0**
- **TEMO**
- **LED Matrix**
- **Sign Colour Standards** for backlit text panels.

Sign Racks, Backlight and Installation Material

Sign base price Profile Sign IP65	10047012
Sign price / cm Profile Sign IP65	10047013
LED Backlight for Profile Sign IP65 / mm	10047014
LED backlight for text plexi panels in Profile Sign IP65. Price / mm backlight	
Fluorescent Lamp Backlight for Profile Sign IP65 / mm	10047015
Fluorescent lamp backlight for text plexi panels in Profile Sign IP65. Price / mm backlight	

¹ Please note that our large arrow/cross LESY (LESY 11 A/C and LESY 10 A/C) do not fit in the indoor sign rack.

<p>Power Supply 24V / 1.3A Sign-integrated power supply for max. 1 LED Symbol (LESY2.0) + 3 digits (LEDI2.0) incl. DIN-rail installation in sign frame</p>		100836
<p>Power Supply 24V / 2.5A Sign-integrated power supply for max. 2 LED Symbol (LESY2.0) + 3 digits (LEDI2.0) incl. DIN-rail installation in sign frame</p>		100837
<p>Installation bracket ceiling installation for Profile Sign IP65 Installation bracket for direct-ceiling or thread rod installation of Profile Sign IP65; 2 pcs. for signs < 1500 mm; 3 pcs. for < 2300 mm; 4 pcs. > 2300 mm</p>		100558
<p>Wall installation rails for 6 Profile Sign units, cuttable Wall installation rail set for 6 stacked profile signs. Cuttable.</p>		100559
<p>Back-to-back installation bracket Profile Sign IP65 Installation bracket for direct-ceiling or thread rod installation of 2 Profile Signs IP65 back-to-back; 2 pcs. for signs < 1500 mm; 3 pcs. for < 2300 mm; 4 pcs. > 2300 mm</p>		10047016

Technical Data

Dimensions

H x D:	241 x 80 mm (9.49 x 3.15 in)
W:	max. 6 m (20 ft)

Technical Data

Rack material:	Extruded aluminium profile
Rack colour:	<ul style="list-style-type: none"> • Aluminium anodised or • RAL powder coating according to customer preferences
Rack openings:	Left and right
Text panel / Front panel:	Transparent acrylic glass 3 mm (0.12 in) (temperature resistant up to 80 °C / 176 °F) or
Text foil (applied on text panel)s:	Colour and layout (text and symbols) according to customer preferences
Ingress Protection:	IP65
Ambient conditions:	-25 to 70 °C (-13 to 158 °F) 10 to 90% RH (non-condensing)
Storage temperature:	-40 to 70 °C (-40 to 158 °F)

Input power of backlight lamps:	<ul style="list-style-type: none"> Fluorescent lamps: 230 V / 50 Hz LED backlight: 24 V from INDECT bus or sign-integrated 24 V power supply
Power consumption of backlight lamps:	0.1 A to 1 A depending on the dimensions and the required number of background lamps
Input power of LED modules:	24 V DC from INDECT bus
Power consumption of LED modules:	Depending on installed LED modules, see respective data sheets

Mounting

- Ceiling mounted: direct or suspended via threaded rods, chains or profiles
- Wall mounted: via profiles (optional profiles available)

Cabling

- Recommended cable for power supply of backlight: NYM-J 3x1.5 mm² / AWG16
Note: Comply with local standards and requirements!
- Recommended cables for connection of LED modules: see data sheet LESY, LEDI, LESY2.0, LEDI2.0, MAMO, MUMO and DIMO.
- **Note:** Other cable types can be tested for suitability by INDECT upon request.

Layout Samples

Sample Sign 1



2500 x 241 x 80 mm (WxHxD)

Content: 2 x 3 LED digits, 2 MAMO, backlit plexi text panels

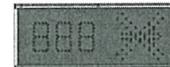


Sample Sign 2

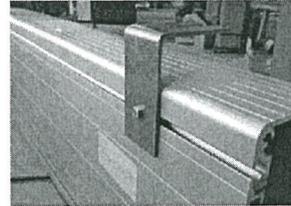
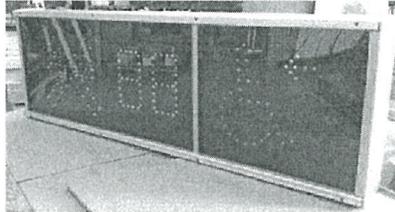


610 x 241 x 80 mm (WxHxD)

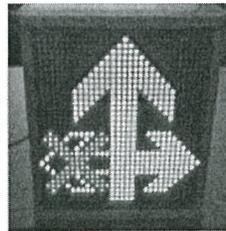
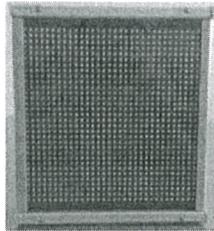
Content: Arrow/Cross with 3 digits



Pictures



Left: sample sign; right: installation bracket; below: Full Matrix Sign



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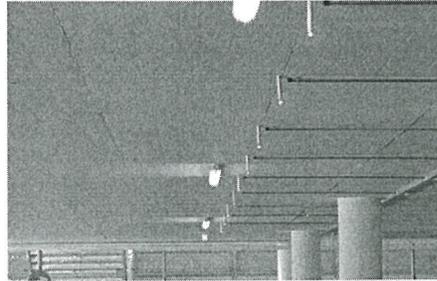
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SI^{ex} - External Space Indicator

Article number: see below

Picture: External LED Space Indicators
(conduit installation)
(actual items may differ from photo)



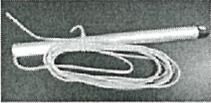
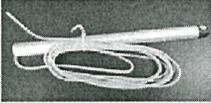
Description

INDECT's Space Indicator shows whether a bay is occupied or free. In addition, the integrated RGB LED allows indication of special bays (e.g. disabled bays, parent with pram, reserved etc.) through freely definable colours.

Advantages

- High-quality and super bright RGB LED and 50° lens
- LED colour can be individually selected and changed at any time to highlight or reserve bays for special user groups (e.g. family - white, disabled - blue, zone parking (cinema, hotel etc.) - pink etc.)
- LED brightness individually adjustable at a mouse click, for example, adapting it to the ambient light (ceiling light, daylight)
- Compensation of LED deterioration caused by long service life and staining
- Daylight compatible LED
- Day/night dimming possible via IVIS user interface
- Optimal perceptibility also in case of beams or fire compartments etc.
- Customer-specific length of the LED tube for optimal adaptation and visibility
- Tube can be adapted (shortened) to fit the respective constructional conditions
- Longer tube (see technical data) available at extra charge
- Rapid installation
- Special alu turned part for mounting on C-channel or plain ceiling
- Special alu turned part for hidden cable installation - for direct-ceiling or suspended installations
- Options:
 - double-sided design
 - optional tube color (RAL)
 - optional white LED Plug for 180° or 360° "glow" effect
 - optionally not preassembled for on-site tube cutting and assembly

Commercial Data

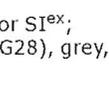
Article name	Article number	Customs tariff number	Weight per unit
Project Articles			
<p>SI^{ex} RGB/SS Set 55-200 mm External RGB LED space indicator, 55-200 mm, incl. aluminium tube anodised 20 mm diameter, RGB LED single-sided, 50° lens, 4 m shielded cable, LED plug black; excl. fixture (see ALUP)</p> 	1002406		
<p>SI^{ex} RGB/SS Set 201-400 mm External RGB LED space indicator, 201-400 mm, incl. aluminium tube anodised 20 mm diameter, RGB LED single-sided, 50° lens, 4 m shielded cable, LED plug black; excl. fixture (see ALUP)</p> 	1002407		e.g. 0.115 kg (0.253 lbs) for a length of 300 mm (11.81 in)
<p>SI^{ex} RGB/SS Set 401-600 mm External RGB LED space indicator, 401-600 mm, incl. aluminium tube anodised 20 mm diameter, RGB LED single-sided, 50° lens, 4 m shielded cable, LED plug black; excl. fixture (see ALUP)</p> 	1002408		
<p>Surcharge SI^{ex} double-sided LED With double-sided LED, double-sided LED plug, 50° lens in both directions</p> 	100253		
<p>Surcharge LED Plug white/black single-sided LED plug white on the LED side for 180° glow effect</p> 	100254		
<p>Surcharge LED Plug white/white single-sided LED plug white for 360° glow effect of single-sided LEDs</p> 	100255		
<p>Surcharge LED Plug white/white double-sided LED plug white for 360° glow effect of double-sided LEDs</p> 	100256		



Surcharge for Cabl^{ex} > 4 m per m For installations where an LED cable longer than 4 m (standard, included) is required		100257		
Not pre-assembled All components are shipped in bulk to be assembled on site so every aluminium tube can be shortened individually before installation		100258		
ALUPG Aluminium turned part with cable groove for direct ceiling installation of SI ^{ex}		1002402	0.010 kg (0.022 lbs)	
ALUPM10 Aluminium turned part with hollow M10 bolt incl. nut for C-channel installation of SI ^{ex}		10024021	0.018 kg (0.04 lbs)	
ALUPCov Aluminium turned part for hidden cable and "free floating" conduit installation of SI ^{ex}		10024022		
ALUPCOVM6L Aluminium turned part for hidden cable and direct-ceiling conduit installation of SI ^{ex} with long M6 part allowing to compensate slight height differences (up to 25 mm)		10024023		
ALUPCOVM6S Aluminium turned part for hidden cable and suspended conduit installation of SI ^{ex} with short M6 part allowing to compensate slight height differences (up to 25 mm) via an M6 threaded rod.		10024024		

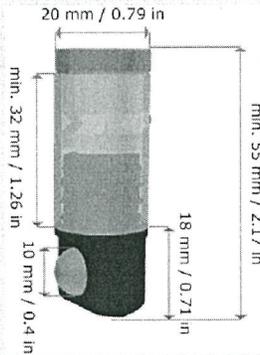
Replacement Articles

LED Plug half, closed, black Closed LED plug half for single-sided LED, black		10024051		
LED Plug half, open, black Open LED plug half to insert lens, black		10024052		
LED Plug half, closed, white Closed LED plug half for single-sided LED, white for glow effect		10024053		

<p>LED Plug half, open, white Open LED plug half, to insert lens, white for glow effect</p>		<p>10024054</p>
<p>Lens 50° For integration in space indicator, single- or double-sided</p>		<p>1002441</p>
<p>RGB-LED SS Single-sided RGB LED on PCB with socket</p>		<p>100248</p>
<p>RGB-LED DS Double-sided RGB LED on PCB with socket</p>		<p>1002481</p>
<p>Cabl^{ex} Cable for external space indicator SI^{ex}; 4 m, LiY(St) Y 4x0.09 mm² (AWG28), grey, shielded</p>		<p>1002401</p>
<p>Grub screw M4, hex socket head, bag à 1,000 pcs. To fix aluminium tube to alu turned part.</p>		<p>1002443</p>

Technical Data

Dimensions:



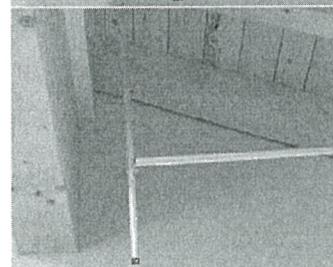
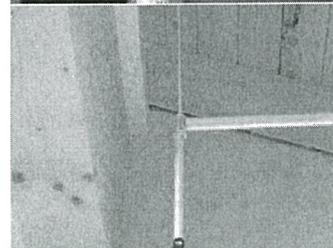
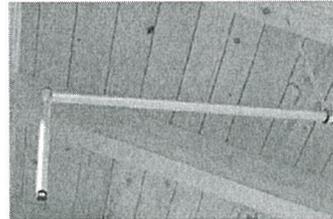
<p>Design:</p>	<p>Aluminium anodized; round outer diameter: 20 mm (0.79 in) inner diameter: 17 - 17.2 mm (0.669 - 0.677 in)</p>
<p>Tube colour:</p>	<p>Alu (optional: RAL)</p>
<p>Length:</p>	<p>According to customer preferences 55 - 600 mm (2.17 - 23.6 in) or longer if required</p>



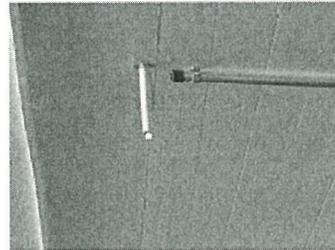
Light source:	RGB LED, ca. 1,800 to 4,000 mcd; optical lens for powerful and constant 50° light emission
Ambient conditions:	-25 to 60 °C (-13 to 140 °F) 10 to 90% RH (non-condensing)
Storage temperature:	-40 to 70 °C (-40 to 158 °F)

Mounting

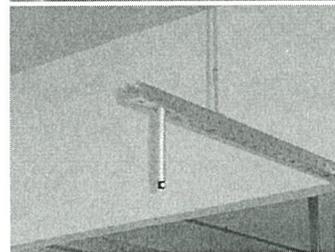
- Direct horizontal conduit mounting of the LED Plug (the interior diameter of the conduit used must be within 17 - 17.2 mm / 0.669 - 0.677 in)
- "Free floating" installation with ALUPCov with hidden cable; the conduit from the sensor to the Space Indicator shall be fixed in the middle with a clamp.
- Direct ceiling installation with ALUPCovM6L
The long M6 part allows for compensating for slight height differences of up to 25 mm.
- Suspended ceiling installation with threaded rod and ALUPCovM6S
The short M6 part allows for compensating for slight height differences by turning the threaded rod.
- Suspended ceiling installation with threaded rod, ALUPCovM6S and a 25 mm aluminium conduit
The short M6 part allows for compensating for slight height differences by turning the threaded rod.
The threaded rod is hidden by a 25 mm aluminium conduit.



- Direct ceiling installation with ALUPG



- C-channel installation with ALUPM10



For further information on conduit or C-channel mounting see data sheet UMS Mounting System.

Cabling

- LiY(St) Y 4x0.09 mm² (AWG28), grey, shielded (4 m included, longer cable upon request)

Note: Other cable types can be tested for suitability by INDECT upon request.

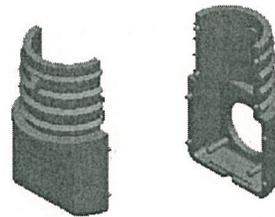
Pictures



Space Indicator with Alu turned part with M10 thread (hollow) and nut for C-channel mounting



Space Indicator with Alu turned part with groove for plain ceiling mounting



LED plug for SI^{ex}, single-sided

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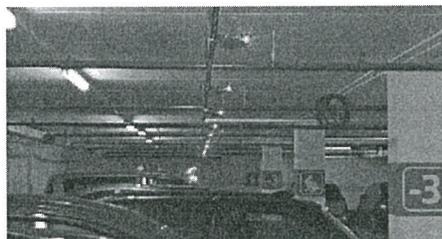
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SIⁱⁿ - Space Indicator Internal LED

Article number: see below

Picture: UMS, C-channel-mounted with integrated space indicator LED's (actual items may differ from photo)



Description

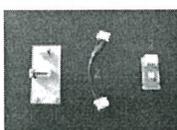
INDECT's Space Indicator shows whether a bay is occupied or free. In addition, the integrated RGB LED allows indication of special bays (e.g. disabled bays, parent with pram, reserved etc.) through freely definable colours. The internal LED is integrated in the UMS sensor.

Advantages

- High-quality and super bright RGB LED
- LED colour can be individually selected and changed at any time to highlight or reserve bays for special user groups (e.g. family - white, disabled - blue, zone parking (cinema, hotel etc.) - pink etc.)
- LED brightness individually adjustable with a mouse click, e.g., adapting it to the ambient light (ceiling light, daylight)
- Compensation of LED deterioration due to long service life and staining
- Daylight compatible LED
- Day/night dimming possible via IVIS user interface
- Rapid installation
- Option: double-sided design

Commercial Data

Article name	Article number	Customs tariff number	Weight per unit
Project Articles			
SIⁱⁿ RGB/SS Set Integrated RGB LED space indicator 115° single-sided (3) incl. cable (2) and LED holder (1) for installation in UMS on site.	100250		0.003 kg (0.007 lbs)



<p>SIⁱⁿ RGB/DS Set Integrated RGB LED space indicator 115° double-sided (3) incl. cable (2) and LED holder (1) for installation in UMS on site.</p>		<p>100251</p>	<p>0.003 kg (0.007 lbs)</p>
---	---	---------------	---------------------------------

Replacement Articles

<p>RGB-LED SS Single-sided RGB LED on PCB with socket</p>		<p>100248</p>
--	---	---------------

<p>RGB-LED DS Double-sided RGB LED on PCB with socket</p>		<p>1002481</p>
--	---	----------------

<p>Cablⁱⁿ Cable for internal space indicator SIⁱⁿ; 50 mm AWG28 4x0.08 mm², black, UL1061</p>	<p>10024011</p>
--	-----------------

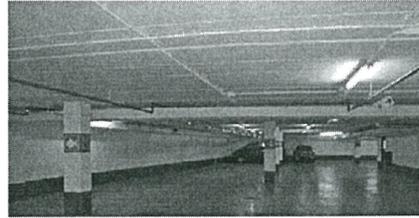
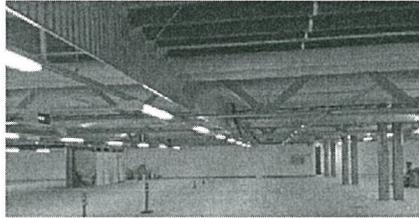
<p>LED Holder RGB LED holder for integrated space indicator SIⁱⁿ</p>		<p>10024042</p>
--	--	-----------------

Technical Data

<p>LED Holder:</p>	<p>Plastic</p>
<p>Light source:</p>	<p>RGB LED, ca. 1,800 to 4,000 mcd</p>
<p>Ambient conditions:</p>	<p>-25 to 60 °C (-13 to 140 °F) 10 to 90% RH (non-condensing)</p>
<p>Storage temperature:</p>	<p>-40 to 70 °C (-40 to 158 °F)</p>
<p>Versions:</p>	<ul style="list-style-type: none"> • Single-sided version • Double-sided version

Cabling

- Cablⁱⁿ: AWG28 4x0.08 mm², black, UL1061 (50 mm incl. plugs on either end)

**Pictures****INDECT Electronics & Distribution GmbH**

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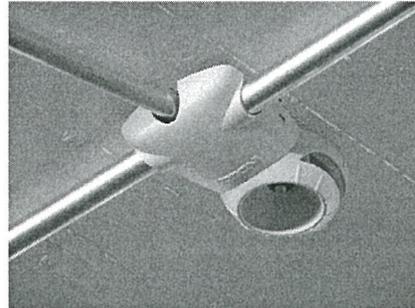
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UMS - Ultrasonic Mini Sensor

Article number: 100114

Picture: UMS conduit installation
(actual item may differ from photo)



Description

INDECT's UMS is a ceiling-mounted ultrasonic sensor used for precise vehicle detection in indoor car parks. The UMS is part of INDECT's Space Administration System ISA.

The UMS is available with integrated space indicator LED or external space indicator LED, both in a double- or single-sided version.

The UMS is CE and EMC certified and has been developed and produced in compliance with ISO 9001.

Advantages

- Ultrasonic transducer in automotive quality
- Smallest dimensions, ultra-flat design
- Rapid mounting through mounting plate and secure clamp system
- High-quality, fully encapsulated and dirt resistant ultrasonic transducer (IP65)
- Rapid wire connection through push-in direct connection terminals
- Cost-effective wiring with standard cable NYM-J 4x1.5 mm² / AWG16
- Remotely updateable firmware to guarantee state-of-the-art detection also of future vehicle types
- Sensor sound inaudible for humans
- Completely independent sensor operation also without central control
- Maintenance-free
- Available also with built-in or external RGB Space Indicator LED
- Cable compartment covers for C-channel installation, conduit installation and 3-knock-out cable compartment cover for flexible cable entry to be decided on site

Commercial Data

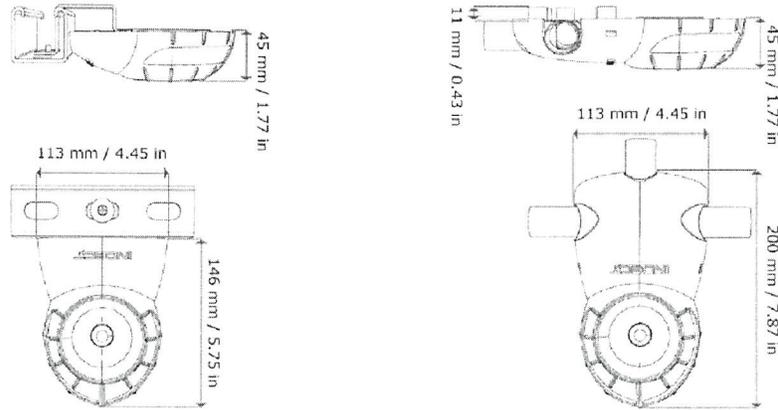
Article name	Article number	Customs tariff number	Weight per unit
<p>UMS Ultrasonic Mini Sensor Ultrasonic sensor for precise vehicle detection in indoor car parks. Fully encapsulated transducer in automotive quality, IP65. Integrated or external LED space indicators must be ordered separately.</p> 	100114		0.115 kg (0.254 lbs)
<p>COCO Cable cover for conduit installation. For direct-ceiling installation with conduits or suspended conduit installation.</p> 	1002491		0.020 kg (0.044 lbs)
<p>COCOclosed Closed cable cover with 3 knockouts (2 lateral, 1 on back) for on-site decision where cables or conduits shall go in. IP40 with all 3 knockouts closed.</p> 	1002494		0.025 kg (0.055 lbs)
<p>COCH Cable cover for C-channel installation</p> 	1002492		0.008 kg (0.017 lbs)

For Space Indicator LEDs (internal or external) please refer to respective data sheet SIⁱⁿ and SI^{ex}.

For sensor installation option, please refer to the data sheet UMS Mounting System.

Technical Data

Dimensions



Ultrasonic Sensor Data

Measuring principle:	Ultrasound
Measuring distance:	500 to 4500 mm (19.7 to 177 in)
Casing material:	Plastic
Casing colour:	RAL 7035
Ingress Protection of transducer:	IP65
Supply voltage range:	15 to 24 V DC
Power consumption:	UMS: 47 mA (according to equipment and settings); connected RGB-LED: 20 mA*
Ambient conditions:	-25 to 60 °C (-13 to 140 °F) 10 to 90% RH (non-condensing)
Storage temperature:	-30 to 70 °C (-22 to 158 °F)

* Depending on the preset LED colour and brightness.

Mounting

- Direct ceiling mounting
- C-channel mounting (see data sheet UMS Mounting System)
- Conduit mounting (see data sheet UMS Mounting System)

Note: The UMS must not be installed outdoors.

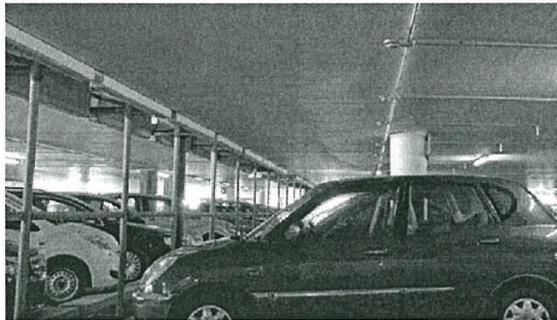
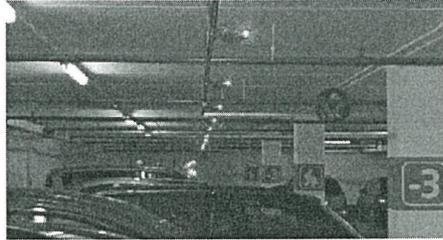
Cabling

- Push-in direct connection terminals
- Recommended cable for connection: NYM-J 4x1.5 mm² / AWG16
(A05VV-U 4 x 1.5 mm² / AWG16)

Note: Other cable types can be tested for suitability by INDECT upon request.

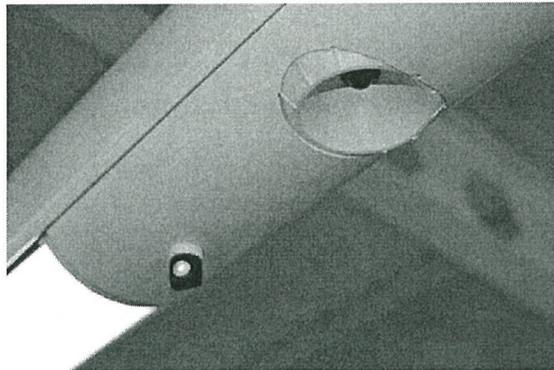
Pictures / Drawings

UMS, C-channel-mounted with integrated space indicator LED's



UMS, conduit-mounted with external space indicator LED:

Special solution, built-in light channel above space; with external space indicator LED.



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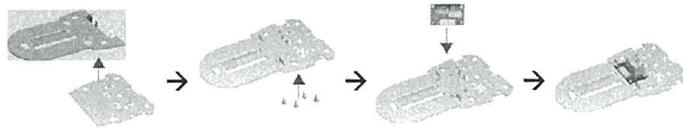


UMS Installation Kit Assembling

Conduit Installation

Assembling the Installation Plate

1. Place the extension plate underneath the installation base plate.
2. Put the pins through the 4 holes to join the two plates.
3. Make sure the pins click into position!
4. Click the connection terminal onto the pins.
5. Slide the ground cable onto the installation plate.



A. Direct ceiling installation

1. Turn the plate upside down and place 2 spacers in the spacer holes. The distance on the left side is predefined by the installation plate edge.
2. Fix the installation plate to the ceiling.



B. Suspended installation

1. Turn the plate upside down and fix it with a thread rod (M10) to the ceiling. Fix the installation plate with nuts above and underneath the thread rod.

Conduits and cabling

1. Conduits are attached to the extension plate via cable ties.

Note: the conduits on the picture go to the left and right to the previous and next sensor, and to the rear to the external space indicator.

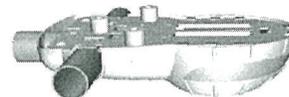


Note: If you use plastic or steel conduits instead of aluminum it is often necessary to fix those additionally with clamps to the ceiling.

2. Connect the cable from sensor to sensor and from the sensor to the external space indicator (see cable layout).

Sensor and cable cover

1. Connect your laptop to the COMO and open the setup software (see separate manual).
2. Connect sensor after sensor. The sensor slides onto the connection terminal and clicks into the two ears on the installation plate.
3. Click on the cable cover.

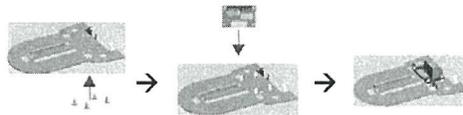


UMS Installation Kit Assembling

C-Channel and Struts

Assembling the Installation Plate

1. Put the pins through the 4 holes.
2. Make sure the pins click into position!
3. Click the connection terminal onto the pins.
4. Slide the ground cable onto the installation plate.



Installation on C-profile or strut

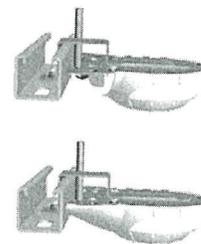
1. Place the installation bracket onto the C-profile.
2. Slide the installation base plate onto the installation bracket until it clicks into position.



3. Connect the cable from sensor to sensor and from the sensor to the external space indicator (see cable layout).

Sensor and cable cover

1. Connect your laptop to the COMO and open the setup software (see separate manual).
2. Connect sensor after sensor. The sensor slides onto the connection terminal and clicks into the two ears on the installation plate.
3. Click on the cable cover.



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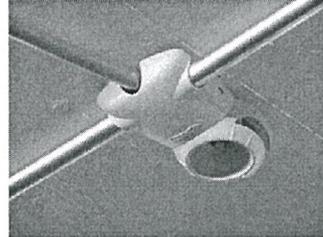
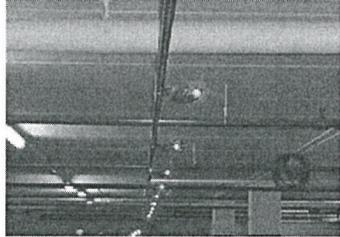
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UMS Mounting System

Article numbers: see below

Pictures:

C-channel mounting, on threaded rods (left); direct ceiling conduit mounting (right)



Description

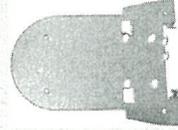
INDECT's UMS Mounting System is a modular system consisting of INDECT's base plates and C-channel or conduit system for cost-efficient and quick mounting of sensors (UMS) and space indicators (SI).

Advantages

- Rapid mounting of C-channels or conduits
- C-channels or conduits act as cable conduit
- Simple click-in sensor mounting on base plate
- Vandalism-proof when C-channel P1100T or bigger is used

Commercial Data

Article name	Article number	Customs tariff number	Weight per unit
Project Articles			
UMS IBP Set C-channel Comprising UMS IBP, UMS TP and 4 terminal pins. Unassembled.		10024056	
UMS IBP Set Conduit Comprising UMS IBP, UMS IBP CEP, UMS TP, 4 terminal pins and 3 SPAC. Unassembled.		10024057	

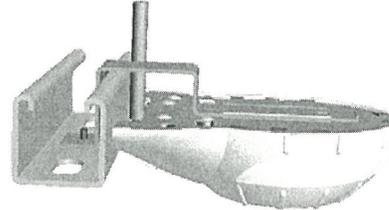
<p>UMS MBLD Installation bracket for 27x18 mm Uni 0 light duty C-channel system by Unistrut</p>		10024323		
<p>UMS MBND Installation bracket for 21x41 mm P400T normal duty C-channel system by Unistrut</p>		10024322		
<p>UMS MBHD Installation bracket for 41x41 mm P1100T heavy duty C-channel system by Unistrut</p>		1002432		
<p>UMS MB Special Brackets On request and after sending a C-channel sample to INDECT</p>		1002442		
Replacement Articles				
<p>UMS IBP UMS Installation Base Plate for C-channel installation For conduit installations the extension plate UMS IBP CEP is additionally required.</p>		1002431	0.065 kg (0.143 lbs)	
<p>UMS IBP CEP UMS extension plate for conduit installations (max. 25 mm conduit diameter)</p>		100243	0.040 kg (0.088 lbs)	
<p>SPAC UMS installation plate spacer for direct ceiling installation of UMS IBP&UMS IBP CEP (3 pcs. SPAC recommended). Height: 11 mm (0.433 in). Price per item.</p>		100242		
<p>UMS TP UMS cable terminal V2 to clip on the UMS installation plate UMS IBP</p>		10024331	0.010 kg (0.022 lbs)	
<p>UMS Terminal Pins Plastic pins to click UMS TP onto UMS IBP and to join UMS IBP and IUMS IBP CEP. Bag of 100 pcs.</p>		10024058		

C-channels: Technical Data & Mounting

Technical Data

The following C-channels are recommended by INDECT.

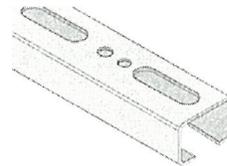
Other types of C-channels and fittings can be tested for suitability by INDECT upon request.



C-channels by Unistrut

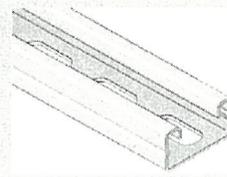
C-channel Uni 0:

27 x 18 x 1.25 mm
(10.06 x 0.7 x 0.05 in)
perforated, pre-galvanised



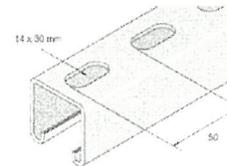
C-Channel P4000T:

41 x 21 x 1.5 mm
(1.61 x 0.83 x 0.06 in)
perforated, pre-galvanised



C-channel P1100T:

41 x 41 x 2 mm
(1.61 x 1.61 x 0.079 in)
perforated, pre-galvanised



Other C-channel sample

C-channel:

70 x 64 x 2 mm (2.76 x 2.52 x 0.079 in)

Fittings

For Unistrut fittings see current Unistrut catalogue.
You can also use standard fittings. Check before installation what additional material you need.

C-channel mounting:

Ceiling mounted with

- Threaded rod (M8)
- Clamp

Sensor mounting:

- Click-in mounting bracket, secured with a bolt
- Mounting plate

Mounting

The C-channels are either fixed on threaded rods (M8) pending from the ceiling, or on a retaining clamp screwed to the ceiling.

The base plate is fixed with a bracket to the C-channel and secured with a bolt.

The cabling from sensor to sensor runs in the C-channel. The cabling from the sensor to the external Space Indicator (if any) runs in another C-channel (recommended) attached to the sensor-C-channel in T-shape and attached to the ceiling on the Space Indicator side, or in a conduit from the main C-channel to the Space Indicator.

The sensors are clicked on the base plate.

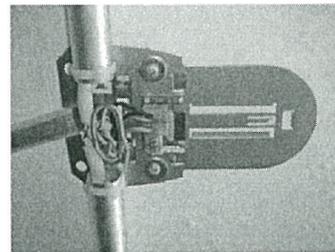
Advantages

- Rapid mounting of C-channels and base plates
- C-channels act as cable duct
- Simple click-in sensor mounting
- Base plate mounting and cabling can be done on the ground before the C-channel is hoisted up and fixed on the ceiling

Conduits: Technical Data & Mounting

Technical Data

Tube dimensions sensor to sensor:	25 mm (0.98 in) diameter; length individually adjustable
Tube dimensions sensor to space indicator:	20 mm (0.79 in) (recommended) or 25 mm (0.98 in) diam.; length individually adjustable



Mounting

The base plate is mounted on threaded rods (M8) pending from the ceiling, or directly screwed to the ceiling (with 1, 2 or 3 screws, according to the circumstances, in this case INDECT also provides spacers (SPAC) to be clicked on the base plate extension).

The conduits are fixed on the base plate with cable binders. In case of an external Space Indicator, the conduit to the Space Indicator is also fixed on the base plate with a cable binder. For more information on how to fix the conduit on the Space Indicator side, see data sheet External Space Indicator SI^{ex}. The conduits hold the cable from sensor to sensor and from the sensor to the Space Indicator.

The sensors are clicked on the base plate.

Advantages

- Rapid mounting of sensor and conduits
- Conduits act as cable conduit
- Simple click-in sensor mounting

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ATTACHMENT 1 TO EXHIBIT E

EQUIPMENT LIST

Address of Parking Structure	Gates	Dual Detector	Relay to reset Detector loops to cut	Folding arm	Strait arm	Entry column - 480 Coder	Exit Column - 480 Coder	KeyDetector for Cardreader in lane	KeyDetector for Roll grill	582 Board for "Let Full" gate	ES 431 Intercom & Housing for Roll grill	ESK31 Intercom for lane	Pedestal in Lane (Intercom & KeyDetector)	CCTV camera to view Roll Grills	CCTV cameras to view rear License plates	CCTV Cameras to Overview lanes	Total CCTV cameras	No Waiting static sign	PC Server to process CCTV Cameras	PC and 19" monitor to View CCTV cameras	EASY Cast Auto Pay 480 Coder	EASY Credit 480 Coder	Process PC - Dell OEM	New Booth - by Sanity	EZ Assure locks	EZ Assure Key Port	EZ Assure guard tour points	
																												4
461 N. Bedford, B.H.	4	4	4	0	0	1	1	1	1	0	1	1	1	1	0	0	2	1	0	0	4	1	1	0	0	0	0	
439 N. Beverly Drive and 438 N Canon Drive	6	12	6	24	4	2	2	2	1	2	1	0	0	2	2	2	6	0	0	0	2	9	1	0	0	0	0	
345 N. Beverly Blvd, BH	6	6	6	12	0	6	2	2	2	1	2	1	0	0	2	2	4	8	0	0	1	2	1	0	0	0	0	
216 S. Beverly Blvd. B.H.	2	2	2	4	2	0	1	1	1	0	1	0	0	1	1	2	4	0	0	0	2	1	1	1	0	0	0	
9510 Brighton	3	3	3	6	3	0	1	1	1	1	1	0	0	1	1	2	4	0	0	0	1	2	1	1	0	0	0	
440 N. Camden	2	2	2	4	0	2	1	1	1	0	0	1	0	0	1	2	4	0	0	0	1	2	1	1	0	0	0	
221 N. Crescent	4	4	4	8	0	4	2	1	1	0	1	1	1	1	1	3	5	0	0	0	1	3	1	1	0	0	0	
333 N. Crescent Drive and 9363 Dayton Way	4	4	4	8	0	4	2	2	2	1	1	0	0	2	2	5	9	0	0	0	2	0	1	2	0	0	0	
450 N. Rexford, and 370 Civic Center Drive	5	5	5	10	4	1	3	1	0	0	1	0	0	0	1	4	5	0	0	0	1	1	1	2	0	0	0	
321 S. La Cienega Blvd, B.H.	6	6	6	12	0	6	2	3	1	0	1	3	3	2	1	2	5	0	0	0	1	1	1	1	0	0	0	
	48	54	48	108	13	35	17	13	17	10	12	10	7	7	13	13	26	52	1	3	3	16	22	10	10	0	1	0

Address of Parking Structure	Concrete island backfill	Booth removal	Nightwork	Core and X-ray deck	Conduit and cable (feet)	Protection Post	Off set Protection post	Nema Box	Trenching for power and data (feet)	Core for conduit	Gutter cap in island	Additional Entry Columns	Additional Exit Columns	Barrier gates	Red/Green	Conduit
461 N. Bedford, B.H.	0	1	x	0	300	0	1	1	0	1	0	1	1	2	0	0
439 N. Beverly Drive and 438 N Canon Drive	1	2		3	500	0	2	0	25	5	2	0	0	0	0	
345 N. Beverly Blvd, BH	2	2		1	320	0	2	0	20	3	2	2	2	0	0	
216 S. Beverly Blvd. B.H.	1	1	x	0	250	5	1	0	35	0	1	1	1	1	1	
9510 Brighton	1	1	x	1	200	0	1	1	10	3	1	1	1	2	2	
440 N. Camden	1	1	x	0	50	0	1	0	15	1	1	1	1			
221 N. Crescent	1	1		1	900	8	1	1	50	1	1	1	1			
333 N. Crescent Drive and 9363 Dayton Way	0	2	x	2	150	0	2	0	20	2	2	2	2			
450 N. Rexford, and 370 Civic Center Drive	2	2		0	300	0	1	0	0	1	2	2	2	2		
321 S. La Cienega Blvd, B.H.	1	1	x	0	200	0	1	0	0	1	1	0	0	0	0	
	10	14		8	3170	13	13	3	175	18	13	11	11	6	4	1000

ATTACHMENT 1 TO EXHIBIT H
PREVENTATIVE MAINTENANCE

Following are the Preventative Maintenance Terms for the following facilities:

1. 345 N. Beverly Drive
2. 216 S. Beverly Drive
3. 9510 Brighton Way
4. 440 N. Camden Drive
5. 450 N. Rexford Drive
6. 438 N. Beverly Drive – 439 N. Canon Drive
7. 241 N. Canon Drive – 242 N. Beverly Drive
8. 9333 West Third Street
9. 461 N. Bedford Drive
10. 333 N. Crescent Drive
11. 221 N. Crescent Drive
12. 9361 Dayton Way
13. 321 S. La Cienega Boulevard
14. 9355 Civic Center Drive
15. 450 N. Crescent Drive

The term of the preventative maintenance coincides with the term of the Agreement.

Maintenance Service Terms:

1. Covered Maintenance Services

Contractor shall furnish the maintenance services specified below on the parking control or building access system equipment listed in this Exhibit operated by City at the Facility (the "Equipment") and related software installed in the Equipment (the "Software"). Contractor shall perform necessary upgrades to the Equipment and Software on a priority basis in the event the federal government issues new coins and/or currency.

ASSURE 3 maintenance services included in the Service Contract price ("Covered Services") cover:

1. Monthly preventive maintenance including inspection, cleaning, lubricating and adjustment of the Equipment as scheduled by Contractor during regular working

hours of 8:00 a.m. to 5:00 p.m. on Monday through Sunday, excluding public Holidays (“Regular Working Hours”).

2. Unscheduled service calls for remedial maintenance performed in response to City’s request during Regular Working Hours.
3. Parts and labor required for repair or replacement of Equipment items in need of repair or replacement as a result of normal wear and tear.

Contractor shall make a reasonable effort to respond to an authorized request for an unscheduled service call on the same day if the service call is placed before 11:00 a.m. on a regular working day. Covered Services requested by City to be performed at times other than Regular Working Hours will be provided at Contractor’s then prevailing rates as set forth in the rate schedule attached as Exhibit B-1, as modified from time to time during the term of this Service Contract by mutual written agreement of the parties.

2. Non-Covered Services

ASSURE 3 maintenance services do not cover:

1. Repair or replacement of damaged or broken parts or items of Equipment that are damaged or fail due to malicious, intentional or accidental acts, insect infestation, or acts of nature.
2. Replacement of gate arms, inking ribbons, print heads, ticket retractors, cutter assemblies or sign faces or restocking of parking tickets.
3. Setting or changing the time or date of clocks or resetting counters.
4. Service calls to deal with the consequences of a power failure, removal or suspension of primary power for any reason.
5. Training of City’s personnel responsible for operating the Equipment, system and Software.

Contractor shall provide the non-covered services, materials and consumable items listed above (“Non-Covered Services”) on a time and materials basis. Maintenance requested by City for Non-Covered Services will be available during Regular Working Hours at Contractor’s then prevailing standard rates as set forth in the rate schedule attached as Exhibit B-1, as modified from time to time during the term of this Service Contract by mutual written agreement of the parties. Maintenance requested by City for Non-Covered Services during other than Regular Working Hours will be provided at Contractor’s then prevailing rates as set forth in the rate schedule as Exhibit B-1, and as modified from time to time during the term of this Service Contract by mutual written agreement of the parties.

3. Trained Employees

Contractor shall perform all services required by the terms of this Service Contract through trained personnel employed and supervised by Contractor. Contractor agrees that each of its employees will be properly qualified and will use reasonable care in the performance of his or her duties.

4. Contract Price and Payment

(a) City shall pay Contractor at the rate described in Exhibit B-1 per month for the Covered Services to be performed under this Service Contract during Regular Working Hours (the "Contract Price").

(b) In addition to the Contract Price, City shall pay Contractor amounts billed for Covered Services performed during other than Regular Working Hours, as specified in Section 1 above, and for Non-Covered Services specified in Section 2 above, including reasonable charges for parts, materials, consumable items and Software releases included in Non-Covered Services.

(c) Amounts due to Contractor will be billed to City on a monthly basis and will be due and payable within 30 days after the date of the billing invoice. Monthly invoices will include the monthly Contract Price billed in advance for Covered Services, plus charges for time and materials for any Non-Covered Services.

(d) Contractor and City will establish a mutually agreed upon punch list of open items. When established Contractor will have 90 days to correct each item, failure to resolve the punch list in 90 days will result in a 10% discount to the monthly maintenance fee until the issues are resolved.

6. Access to Facility

Contractor's employees and authorized representatives shall have access to City's Facility and the Equipment during Regular Working Hours for the purpose of performing the Covered Services and, at the request of City, Non-Covered Services. City also shall permit Contractor's employees and authorized representatives' access to the Facility and the Equipment during other than Regular Working Hours for the purpose of performing Covered and Non-Covered Services requested by City.

7. Representations

(a) Contractor represents and warrants to City as follows: (i) Contractor is a corporation organized, validly existing and in good standing under the laws of California and has the power and authority to enter into and perform this Service Contract; and (ii) Contractor has taken all necessary action to authorize the execution, delivery and performance of this Service Contract and has executed and delivered this Service Contract.

(b) City represents and warrants to Contractor as follows: (i) City is a corporation or other business entity organized, validly existing and in good standing under the laws of its jurisdiction of organization and has the power and authority to enter into and perform this Service Contract; and (i) City has taken all necessary action to authorize the execution, delivery and performance of this Service Contract and has executed and delivered this Service Contract.

(c) Contractor shall indemnify and defend City and its officers, directors, shareholders, managers, members, agents and employees ("City's Agents") and hold City and City's Agents harmless from and against any and all Claims incurred by reason of, or arising out of, Contractor's intentional or negligent act or omission in connection with the performance of maintenance services under this Service Contract. The Claims covered by this indemnity include without limitation both personal injury damages, whether physical or emotional, and property damages. Contractor's duties hereunder shall be owed to City and City's Agents to the fullest extent permitted by law, except to the extent the injury or damage is caused by the City's intentional or negligent act or omission.

8. Force Majeure

Contractor shall not be responsible and shall have no liability for any failure or delay in the performance of its service obligations under this Service Contract or its failure or delay in delivering replacement parts, supplies, Software, or other Equipment items, if its failure or delay is caused by an external event beyond its reasonable control, including without limitation war, insurrection, acts of terrorism, or civil unrest; earthquake, fire, storm, flood or other natural disaster; strikes or other labor disturbances; quarantines, epidemics or other public health emergencies; or other similar events or conditions.