

RHYTHM ENGINEERING

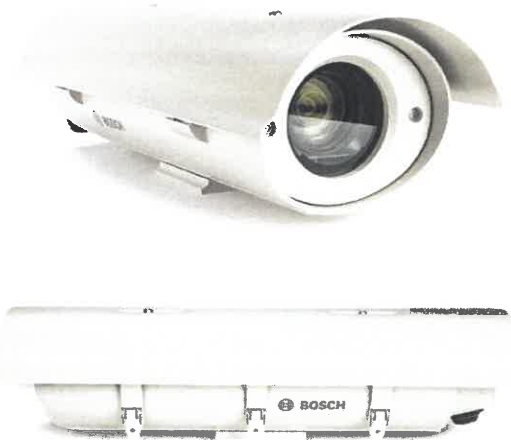
VIDEO DETECTION CAMERA SYSTEM

Standard Camera

Overview

Optical Detection Camera with Standard Enclosure

In|Sync video detection uses high-performance Samsung IP digital cameras to measure traffic occupancy, queue length and delay in **real-time**. Each camera is delivered to you, ready for installation in a weatherproof enclosure, and connects to both power and Ethernet network in just seconds. You have direct access to camera views and settings via the **In|Sync WebUI**.



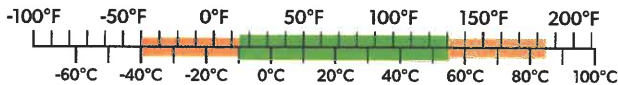
Features

Camera - Samsung SNZ-6320

- 4.44 – 142.6 mm (32x) optical zoom,
- 16x digital zoom

Enclosure - Bosch UHO-HBGS-11

- Hinged side opening for easy installation and camera setup
- Window defroster with self-cleaning glass
- IP66, NEMA-4X rating

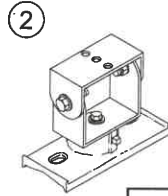
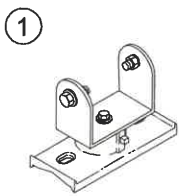


Enclosure Camera

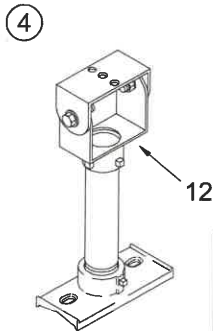
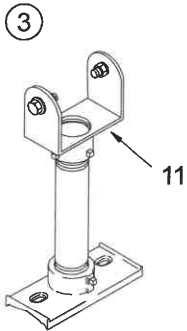
Power	Weight	Temperature	Humidity	Dimensions
12 VDC, max 9W	1.19 lb (540g)	Operating: 14°F to 131°F (-10°C to 55°C)	20% to 80% non-condensing	2.83" x 2.36" x 5.33" (72.0 x 59.9 x 135.4 mm)
24 VDC, max 45W	6.8 lb (3.2 kg)	Non-Operating: -40°F to 185°F (-40°C to 85°C)		5" x 6.7" x 18.9" (126.5 x 171.3 x 480 mm) including sunshield

CAMERA MOUNTINGS

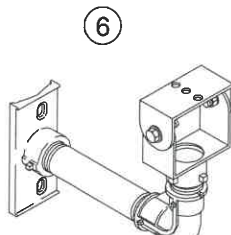
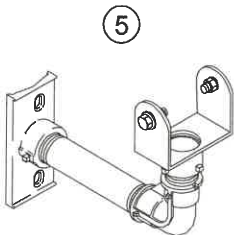
Mast Arm, SOP, Post Top, Span Wire



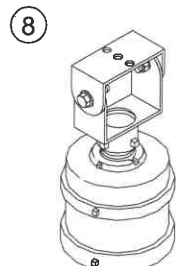
ITEM 1-2 OPTIONS
PAINT



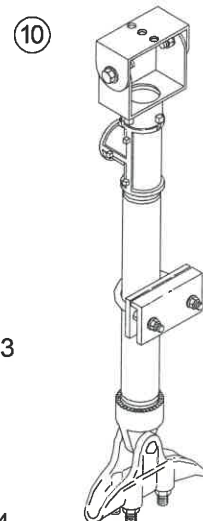
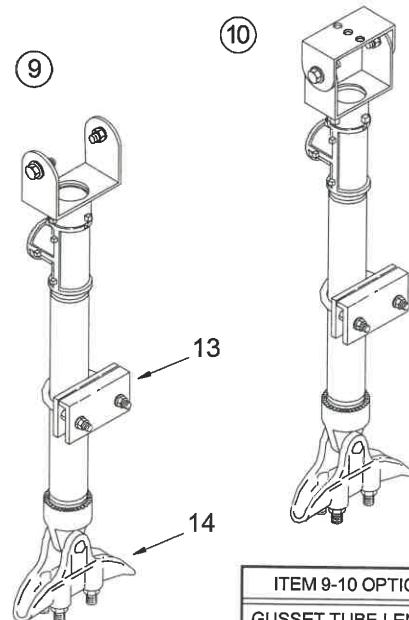
ITEM 3-4 OPTIONS
NIPPLE LENGTH:
6", 10", 11", or 12"
PAINT



ITEM 5-6 OPTIONS
NIPPLE LENGTH:
11", 12", or 24"
PAINT



ITEM 7-8 OPTIONS
PAINT



ITEM 9-10 OPTIONS
GUSSET TUBE LENGTH:
23", 37", 46", 58", or 74"
STAINLESS UPGRADE
PAINT

ITEM	DESCRIPTION	PART NO.
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VIDEO DETECTION CAMERA BRACKET:

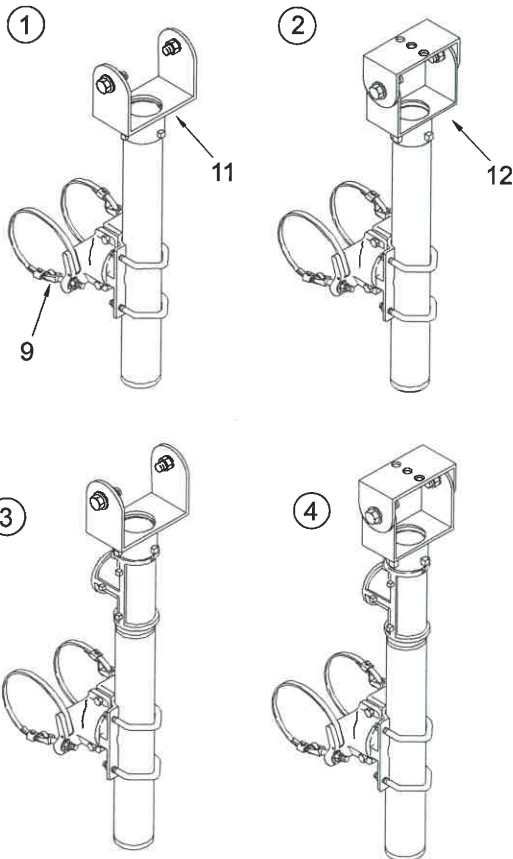
①	Tilt & Pan, Mast Arm Mount, 1-Piece	SH-0510
②	Tilt & Pan, Mast Arm Mount, 2-Piece	SH-0501
③	Extended Tilt & Pan, Mast Arm Mount, 1-Piece	SH-0509
④	Extended Tilt & Pan, Mast Arm Mount, 2-Piece	SH-0504
⑤	Extended Tilt & Pan, Vertical Mount, 1-Piece	SH-0527
⑥	Extended Tilt & Pan, Vertical Mount, 2-Piece	SH-0503
⑦	Tilt & Pan, Post Top Mount, 1-Piece	SH-0520
⑧	Tilt & Pan, Post Top Mount, 2-Piece	SH-0519
⑨	Tilt & Pan, Span Wire Mount, 1-Piece	SH-0526
⑩	Tilt & Pan, Span Wire Mount, 2-Piece	SH-0532

CAMERA MOUNTING BRACKET:

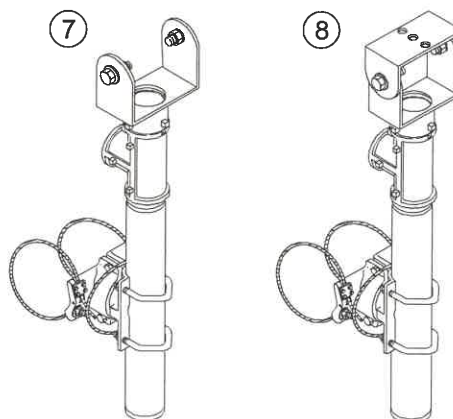
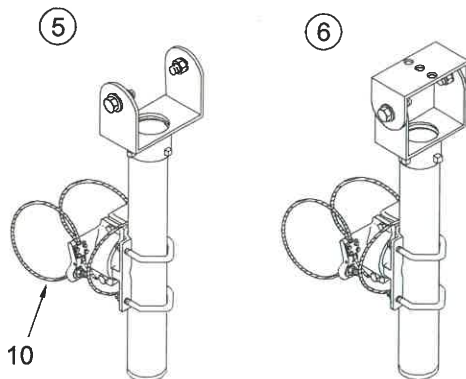
11	1-Piece, Alum.	SH-0514
12	2-Piece, Alum.	SH-0515
13	TETHER ASSY, Break-A-Way for 1½" Pipe, Steel	SE-3055
14	SPAN WIRE CLAMP, Alum w/ U-Bolts	SE-0321

Notes:

1. All assemblies are supplied standard with stainless steel fasteners. Stainless steel upgrade shall include stainless hardware on span wire clamp where applicable.
2. 1-piece bracket for mounting Iteris, Odetics, or Econolite Solo Pro type cameras. 2-piece bracket for mounting Burle type cameras.
3. Please specify options when ordering.



ITEM 1-4 OPTIONS
TUBE LENGTH: 23", 37", 46", or 74"
BAND LENGTH: 29", 36", 42", 48", or 56"
STAINLESS UPGRADE PAINT



ITEM 5-8 OPTIONS
TUBE LENGTH: 23", 37", 46", or 74"
CABLE LENGTH: 62", 84", or 96"
PAINT

ITEM	DESCRIPTION	PART NO.
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VIDEO DETECTION CAMERA BRACKET

Extended Tilt & Pan, Stellar Series:

①	Band Mount, 1-Piece	AS-0170
②	Band Mount, 2-Piece	AS-0172
③	Band Mount w/ Service Wire Outlet, 1-Piece	AS-0177
④	Band Mount w/ Service Wire Outlet, 2-Piece	AS-0173
⑤	Cable Mount, 1-Piece	AS-0175
⑥	Cable Mount, 2-Piece	AS-0169
⑦	Cable Mount w/ Service Wire Outlet, 1-Piece	AS-0166
⑧	Cable Mount w/ Service Wire Outlet, 2-Piece	AS-0164

ASTRO-BRAC CLAMP KIT, Stellar Series:

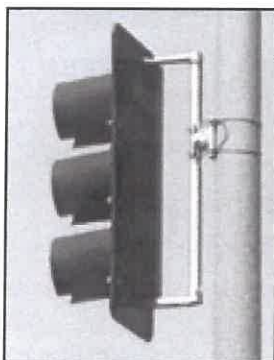
9	Band Mount	AS-3004
10	Cable Mount	AS-3009

CAMERA MOUNTING BRACKET:

11	1-Piece, Alum.	SH-0514
12	2-Piece, Alum.	SH-0515

Notes:

1. All assemblies are supplied standard with stainless steel fasteners. Stainless steel upgrade shall include stainless clamp screw kit where applicable.
2. 1-piece bracket for mounting Iteris, Odetics, or Econolite Solo Pro type cameras. 2-piece bracket for mounting Burle type cameras.
3. Please specify options when ordering.



The Astro-Brac in its various configurations is a truly universal system for mounting signals.

The Astro-Brac is designed to facilitate the mounting of any size or combination of signals to any size of mast arm or pole. This complete adjustability is not possible with other types of rigid mountings.

ITEM	DESCRIPTION	PART NO.
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ASTRO-BRAC ASSY, Stellar Series:

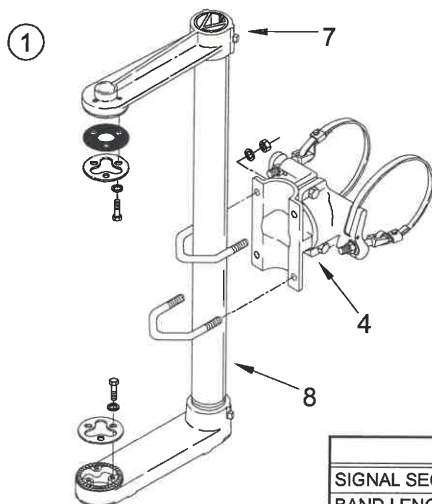
①	1-Way Band Mount.....	AS-0116
②	1-Way Cable Mount.....	AS-0125
③	1-Way Tenon Mount	AB-0137

ASTRO-BRAC CLAMP KIT:

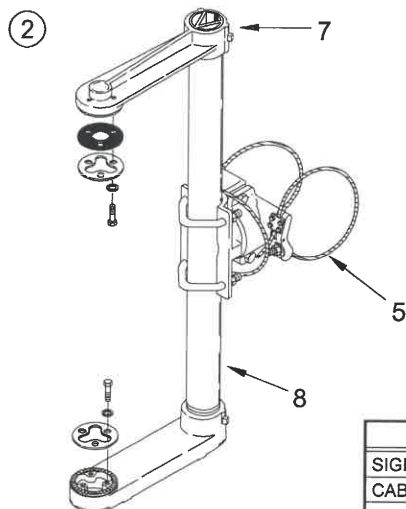
4	Band Mount, Stellar Series	AS-3004
5	Cable Mount, Stellar Series	AS-3009
6	Tenon Mount	AB-3010
7	ARM KIT, 8½" CTC	AB-4000
8	GUSSETED TUBE, w/ Vinyl Insert, 1½" Alum TOE	AB-2003

Notes:

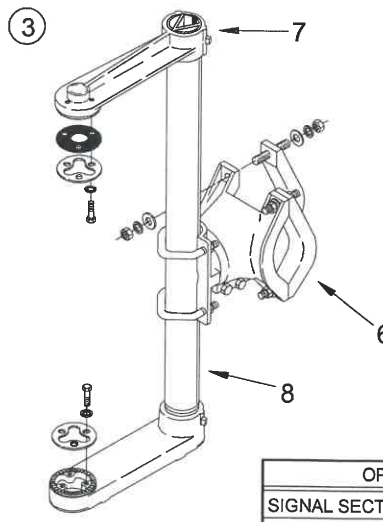
1. All assemblies are supplied standard with stainless fasteners and natural aluminum alodine coating. Stainless upgrade to include stainless steel clamp screw where applicable.
2. See pages T1-8 thru T1-14 for clamp kit pole diameter options.
3. Please specify options when ordering.



OPTIONS
SIGNAL SECTION: 1, 2, 3, 4, or 5
BAND LENGTH: 29", 36", 42", 48", or 56"
STAINLESS UPGRADE PAINT



OPTIONS
SIGNAL SECTION: 1, 2, 3, 4, or 5
CABLE LENGTH: 62", 84", or 96"
PAINT



OPTIONS
SIGNAL SECTION: 1, 2, 3, 4, or 5
PAINT

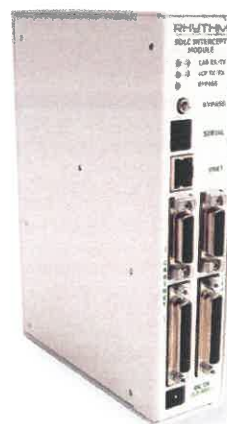
SDLC Interface Module

Overview

The SDLC Interface Module is Rhythm Engineering's custom connection between a NEMA TS2-Type 1 traffic controller and the InSync Processor. Using the SDLC Interface Module makes for fast, easy, error-free installation and allows you to integrate your existing detectors with the InSync system.

Features

- Compact, stand-alone box design easily sits on a shelf
- Supports standard NEMA TS2 SDLC and ITS connections
- Provides a switch for manually bypassing the intercept mode
- Contains an Ethernet port for 10/100 network connectivity
- Contains an RS-232 port and associated RJ12 connector for local serial access
- Compatible with the NEMA TS2-Type 1 traffic controller
- Uses minimal space in cabinet



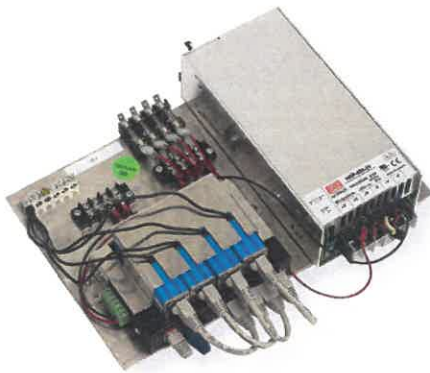
Power	Weight	Temperature	Humidity	Dimensions
12 to 48VDC	.68 kg (1.4 lbs)	Operating: -40°C to 74°C (-40°F to 165°F) Non-Operating: -40°C to 85°C (-40°F to 185°F)	Operating: 10% to 90% non-condensing Non-Operating: 5% to 95% non-condensing	44mm wide x 146mm deep x 203mm tall (1.75" wide x 5.75" deep x 8" tall)

Equipment Panel

Overview

The Equipment Panel is the power and communications hub of the InSync system at each intersection. It provides a safe, reliable DC power supply and an Ethernet switch, both of which support the InSync Processor and cameras. The Equipment Panel has a number of safety mechanisms, including lightning arrestors to protect the networking equipment and a fuse block to protect the power leads to the cameras.

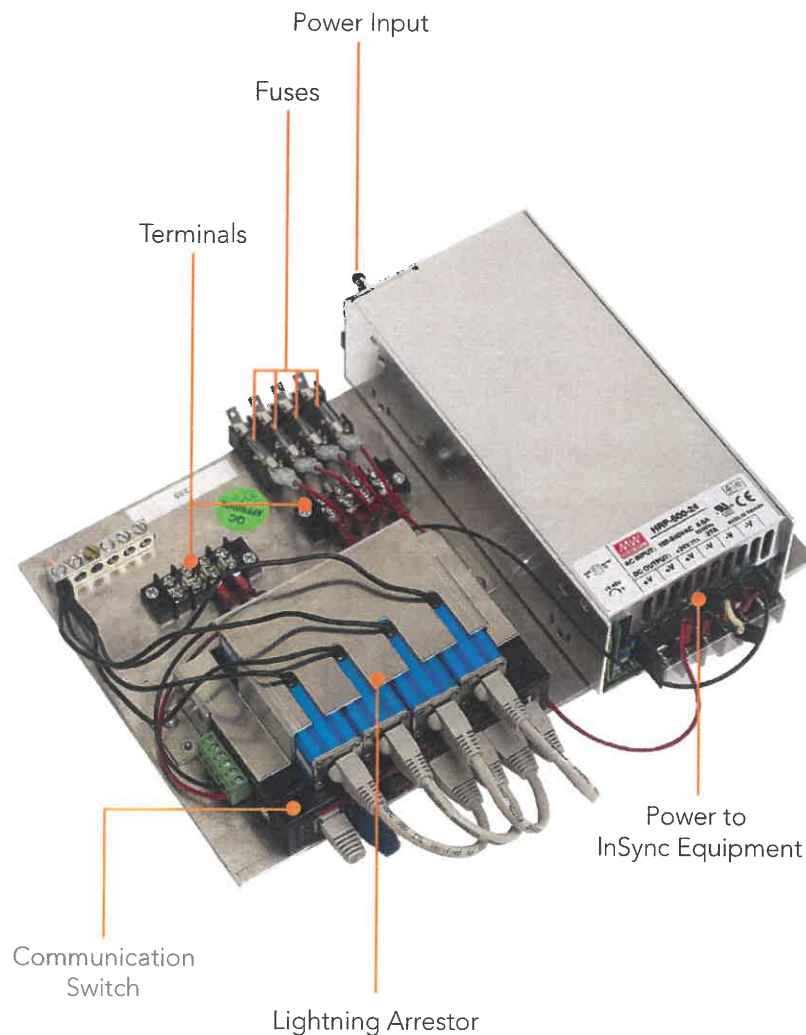
If detection cameras are used, the Equipment Panel also connects to a DIN Relay to ensure that camera power is automatically restarted in the rare event of a lock-up or power failure. By streamlining communications between the cameras and InSync Processor, the Equipment Panel makes sure InSync has the ability to instantly and quickly process detection data.



Features

- Hardened 120 VAC to 24 VDC 600 watt power supply
- 100 Mbps unmanaged Ethernet switch
- Store-and-forward switching architecture
- 8 Ethernet networking ports
- DC+/DC- terminal blocks provide power to cameras
- Earth ground bar
- Lightning arrestors provide protection
- 4-amp fuse block protects power to the cameras

Equipment Panel



Power	Weight	Temperature	Humidity	Dimensions
120 VAC; max. 160W	3.2 kg (7 lbs.)	Operating: -40°C to 74°C (-40°F to 165°F) Non-Operating: -40°C to 85°C (-40°F to 185°F)	Operating: 10% to 90% non-condensing Non-Operating: 5% to 95% non-condensing	254mm wide x 330mm deep x 76mm tall (10" wide x 13" deep x 3" tall)

www.RhythmTraffic.com

InSync Processor

NEMA-STYLE

Overview

The processor is the heart of the InSync system. This computer, installed in the traffic cabinet at each local intersection, holds all the artificial intelligence of the adaptive system. The InSync Processor gathers and calculates detection information from all sources you have available (such as video cameras, loops and pedestrian intercepts) and then determines the service priority for each approach. The processor places only two concurrently servicable calls to the existing traffic controller to actuate signal phases.

As a modern, digital state machine, the processor can choose whichever state will best serve traffic demand. InSync then sends the appropriate call to your controller and the signals adapt to traffic demand immediately. InSync transforms the complexity of constantly changing traffic demand into simple decisions made every second, resulting in a noticeable difference to you and your motorists.

Features



NEMA-STYLE

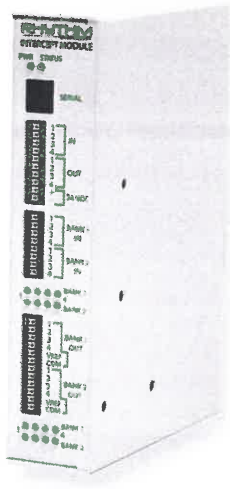
- Video processing for up to 5 networked InSync cameras
- Remote monitoring/configuration via a web interface
- Tied to back panel, enabling monitoring of light status
- Password protection for access on shared networks
- Automatic per-phase and per-lane traffic counts
- Advanced emergency/ fog mode based on historical data with InSync cameras
- VGA video port for monitoring at cabinet
- 2 USB ports for keyboard/mouse and field upgrades
- 10/100 Mbps Ethernet port
- Fuses together multiple forms of detection resulting in maximum accuracy with InSync:Fusion
- Compatible with all types of traffic controllers and cabinets for fast, easy installation
- Flexible and extensive input/output options for advanced functionality

Power	Weight	Temperature	Humidity	Dimensions
24VDC, 150 Watts minimum	3.2 kg (7 lbs)	Operating: -40°C to 74°C (-40°F to 165°F) Non-Operating: -40°C to 85°C (-40°F to 185°F)	Operating: 10% to 90% non-condensing Non-Operating: 5% to 95% non-condensing	NEMA-STYLE: SHELF MOUNTABLE 150mm wide x 241mm deep x 275.5mm tall (5.9" wide x 9.5" deep x 10.8" tall)

Intercept Module

Overview

The Intercept Module allows InSync to accept non-standard detection inputs such as those from pedestrian push buttons, railroad crossings, transit system priority and emergency vehicle preemption. InSync can immediately serve (such as EVP) or temporarily hold the call for service (such as pedestrian calls), depending on the input type, in a way that minimizes disruptions to InSync's progression of vehicles.



Features

- Provides for eight field inputs and eight field outputs
- Can be configured to operate using serial communication or low voltage signal communication
- Provides a way to listen to and produce signals that are 12 VAC or 24 VDC referenced
- Compact, stand-alone box design easily sits on a shelf
- Optional bracket allows rack mounting
- Contains an RS-232 port and associated RJ12 connector for local serial access
- Built-in fail-safes allow inputs to be passed through during communication or power failures

Power	Weight	Temperature	Humidity	Dimensions
20-30 VDC, Max Current: 250 mA Reverse Polarity Protection ESD Protection	.68 kg (1.4 lbs.)	Operating: -40°C to 74°C (-40°F to 165°F) Non-Operating: -40°C to 85°C (-40°F to 185°F)	Operating: 10% to 90% non-condensing Non-Operating: 5% to 95% non-condensing	44mm wide x 146mm deep x 203mm tall (1.75" wide x 5.75" deep x 8" tall)

www.RhythmTraffic.com

Monitor & Keyboard Set

Overview

The Monitor & Keyboard Set allows full monitoring and configuration of the system at the cabinet. The monitor has a resolution of up to 1024 x 768 (H x V) formatted. The standard USB keyboard comes with an integrated trackball for mouse emulation.



Features

- LED backlight
- 88/89 keys keyboard with embedded numeric keypad and 12 dedicated function keys
- Windows-compatible

	Power	Weight	Temperature	Humidity	Dimensions
Monitor	<10W	.43 kg (15 oz)	Operating: -10°C to 60°C (14°F to 140°F) Non-Operating: 0°C to 70°C (32°F to 158°F)	up to 90% non-condensing	183mm wide x 33 mm deep x 125mm tall (7.2" wide x 1.3" deep x 4.9" tall)
Keyboard	N/A	1 kg (1.9 lbs)	Operating: 0°C to 40 °C (32°F to 104°F) Non-Operating: -10°C to 60°C (14°F to 140°F)	10% to 85% non-condensing	173mm wide x 338mm deep x 33mm tall (6.8" wide x 13.3" deep x 1.3" tall)

WEB CONTROLLED DIN RELAY IV

Web , script, and automatic control.

Reboot, start or stop equipment in remote locations. Control and reboot equipment securely from your web browser or via program control. Increase uptime. Simplify wiring.

The DIN relay is a low cost, easy-to-use alternative to PLCs and PC-based controllers. Control one or hundreds of relays from a single script. Access securely over the web. No programming or scripting is required for basic operation. It's ready to go, out of the box.

Our fourth-generation model includes WiFi which can be enabled by the administrator in either client or access point modes.

We recently added these features while retaining backward compatibility with earlier products:

- Pluggable contacts for easier installation
- Relay fuses to protect against over-current
- Self resetting crowbar over-voltage protection
- A more powerful watchdog processor
- Port for an external 1-wire temp/humidity sensor
- Analog inputs for monitoring DC voltages
- HTTPS, SSL, SSH with tighter security
- Internal event notifications
- Amazon Alexa compatibility

Use the updated AutoPing system which automatically monitors critical devices, such as wireless access points, routers and IP cameras. If a device goes down, the relay will automatically reboot it without user intervention. "Locked-up" devices are brought back to life. Truck rolls and service calls are reduced.

Eliminate overloads, brown-outs, blown breakers and other power problems before they occur. Start devices sequentially. Eight fully isolated and individually controlled T-90 SPDT relays handle 12 Amps each. Attach high-current contactors to control even larger loads.

Command your relay using a friendly web interface, via a custom script or via the command line. Change the user-defined graphics and hyperlinks to customize the web pages. Programmers can use the sample scripts or write their own.

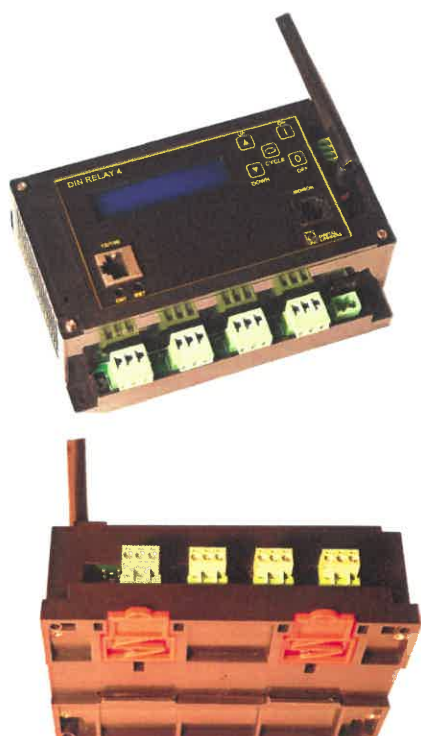
Call for a risk-free trial.



Digital Loggers, Inc.
2695 Walsh, Santa Clara, CA 95051
Tel: (408) 330-5599 DINrelay.com



- Control APs, routers, IP cams, machinery, industrial process equipment, motors, solar panels, servos, HVAC, high current contactors... almost any device!
- Includes both WiFi and wired Ethernet for flexibility.
- 1-wire port lets you add an external temp/humidity sensor.
- Load your own Lua scripts to automate control from remote LAN locations.
- 10-bit telemetry ADCs measure 0-10VDC and 0-100VDC.
- Clock / calendar with battery backup schedules events and starts user-defined scripts.
- Programmable LCD displays status, helps with initial setup, and shows user-programmable messages.
- Updated to a completely new 32 bit processor. Now supports SSH, SSL, HTTPS, and includes a Rest API.
- Under-Voltage Lockout improves battery operation
- Programmable LCD displays status, helps with initial setup and can be user controlled.
- Eight sturdy T-90 SPDT dry-contact relays are individually controlled over Ethernet by scripts or web commands. Each relay is fused for safety and pluggable connectors are now used to simplify wiring.
- 10/100 autosensing plug-and-play Ethernet connects to your LAN, WAN, or router.
- Multiple power-up recovery modes include sequential on, all-off, last state, start script, etc.
- Switching power supply operates efficiently from any 12-28VDC power input. Contact engineering for 48V and PoE applications.
- Snaps directly to DIN rail or bolts to panel.



"Great product that has saved us a huge amount of time by not having to be on-site to reset equipment that has hung.."

Stan Searing, Pixim Corporation

P/N DIN4

Digital Loggers, Inc.
2695 Walsh, Santa Clara, CA 95051
Tel: (408) 330-5599 IoTrelay.com

SPECIFICATIONS

ADC Inputs	2-channel 0-10 and 0-100VDC typical accuracy +/- 2%
API	digital-loggers.com/restapi.pdf
Case Contact Rating	300V, 12A
Clock Calendar	9s / week typical accuracy 10 year lithium battery backup supports NTP time sync
Dimensions	6.00 x 4.25 x 2.25" DIN compliant
Enclosure Material	Injection molded high-temp thermoplastic, vented 5 sides
Ethernet Interface	10/100 autosensing, Static IP, TCP port selectable, RJ-45 w/ internal FCC filters
FCC ID	2ACOE-SKW71 2.4GHz
Input Voltage	12-28VDC, UVLO approx 10.5V Safety Shutdown at 34VDC
LCD Display	2x16 backlit with powersave displays status & user messages adjustable power save mode 50k hour backlight lifetime
Max. Switched Power	8 x 10A at 125VAC Fused at 12A
Operating Temperature	-30° to 170°F, -34° to 77°C designed for dry environments

Password Transmission	HTTP/MD5, HTTPS*, SSL*, SSH*
Power Dissipation	5.8W Max (relays on) <2 W idle
Power Fail Hold-Over	150ms min. (24V, all relays on)
Power-Up Settings	Last relay settings, all relays off, sequential on or run user script
Relay Contact Rating	T-90, 277V, 30/40A AC/DC, 1/2HP
Relay Debounce	~200ms protection timer
Scripting Language	"C-like" Lua*, examples included
Software Controls (via web or script)	Individual outlets on/off, all on/ network settings, web links, outlet and relay names, multiple power-on modes for safety
Switches & Controls	Relay select/on/off/cycle, Defaults
Users	Up to 8 simultaneous logins, subject to memory limitations
UVLO	Starts @ 11.5VDC, Shutdown 10.5V
Vibration	Not intended for mobile or airborne applications. Contact factory for ruggedized variant.
Weight	Bare unit 2.7 lbs, Ship wt. 3.6 lbs

* New in version 4

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



7937A Multi-Conductor - DataTuff® Waterblocked Cate 5e Cable



For more Information
please call

1-800-Belden1



Description:

24 AWG solid bare copper conductors, twisted pairs, polyolefin insulation, polymer gel waterblocked, inner LLPE jacket, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain wire, industrial grade sunlight- and oil-resistant LLPE jacket.

Usage (Overall)

Suitable Applications:

Industrial Ethernet Cable, Harsh Environments, 100MHz Category 5e, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, RS-422, CMX - Outdoor, RJ-45 Compatible, Noisy Environments

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	24	Solid	BC - Bare Copper

Insulation

Insulation Material:

Insulation Material
PO - Polyolefin

Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (in.)
LLPE - Linear Low Density Polyethylene	0.215

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
LLPE - Linear Low Density Polyethylene

Outer Jacket Ripcord:

No

Overall Cable

Overall Nominal Diameter:

0.276 in.

Pair

Pair Color Code Chart:

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



7937A Multi-Conductor - DataTuff® Waterblocked Cate 5e Cable

4	White/Brown Stripe & Brown
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Mechanical Characteristics (Overall)

Installation Temperature Range:	-25°C To +75°C
Operating Temperature Range:	-40°C To +75°C
Bulk Cable Weight:	33 lbs/1000 ft.
Max. Recommended Pulling Tension:	40 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.750 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

Other Standards:	11801 Category 5
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Other Specification:	NEMA WC-63.1 Category 5e

Suitability

Suitability - Outdoor:	Yes
Suitability - Burial:	Yes - Telcordia, IEC, ICEA
Sunlight Resistance:	Yes - UL
Oil Resistance:	Yes - UL
Non-halogenated:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)
15

Maximum Capacitance Unbalance (pF/100 m):	330
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Nominal Velocity of Propagation:

VP (%)
70

Maximum Delay:

Delay (ns/100 m)
538 @ 100MHz

Max. Delay Skew:

Delay Skew (ns/100 m)
45

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
9.38

Max. Operating Voltage - UL:

Voltage

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



7937A Multi-Conductor - DataTuff® Waterblocked Cate 5e Cable

300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)

3

Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)	Min. SRL (dB)
1	2.0	65.3	62.3	63.0	60.0	20.0	23
4	4.1	56.3	53.3	51.0	49.0	23.0	23.0
8	5.8	51.8	48.8	46.0	43.0	24.5	24.5
10	6.5	50.3	47.3	43.0	41.0	25.0	25.0
16	8.2	47.3	44.3	39.0	36.0	25.0	25.0
20	9.3	45.8	42.8	36.5	33.5	25.0	25.0
25	10.4	44.3	41.3	33.9	30.9	24.3	24.3
31.25	11.7	42.9	39.9	31.0	28.0	23.6	23.6
62.5	17.0	38.4	35.4	22.0	19.0	21.5	21.5
100	22.0	35.3	32.3	14.0	11.0	20.1	20.1

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	100 ± 15	63.8	60.8
4	100 ± 15	100 ± 15	51.7	48.7
8	100 ± 15	100 ± 15	45.7	42.7
10	100 ± 15	100 ± 15	43.8	40.8
16	100 ± 15	100 ± 15	39.7	36.7
20	100 ± 15	100 ± 15	37.7	34.7
25	100 ± 15	100 ± 15	35.8	32.8
31.25	100 ± 15	100 ± 15	33.9	30.9
62.5	100 ± 15	100 ± 15	27.8	24.8
100	100 ± 15	100 ± 15	23.8	20.8

Notes (Overall)

Notes: Operating temperatures are subject to length de-rating. Cable passes -40°C Cold Bend per UL 1581. Sequential marking at two foot intervals. Polymer gel waterblocking material.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7937A 0101000	1,000 FT	37,000 LB	BLACK		4 PR #24 P0 GEL LLDP0 FS LLDP0

Revision Number: 1 Revision Date: 12-07-2011

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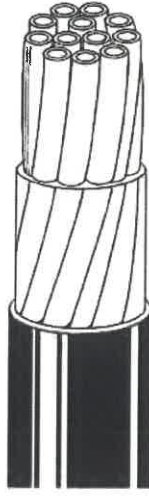
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7937A Multi-Conductor - DataTuff® Waterblocked Cate 5e Cable

determining the applicability of legislation and regulations based on their individual usage of the product.

IMSA 20-1 Stranded Conductor



Product Description

Polyethylene insulation
Polyethylene jacket
75°C, 600 V

Applications

For use in signal systems and approved for installation in underground ducts or as aerial cable supported by a messenger.

Specifications

- CONDUCTORS: Bare, stranded, annealed copper, conforming to the requirements of ASTM B-3, latest edition
- INSULATION: The insulation compound before application to the conductors is heat-stabilized polyethylene, and it meets all requirements of the latest IMSA Specification No. 20-1
- ASSEMBLY: The insulated conductors are laid up in compact cable form, and bound with a spiral wrap
- OVERALL JACKET: High-molecular weight polyethylene
- STANDARDS: The completed cable meets or exceeds the latest International Municipal Signal Association (IMSA) Specification No. 20-1
- TEMPERATURE: 75°C
- VOLTAGE: 600 V

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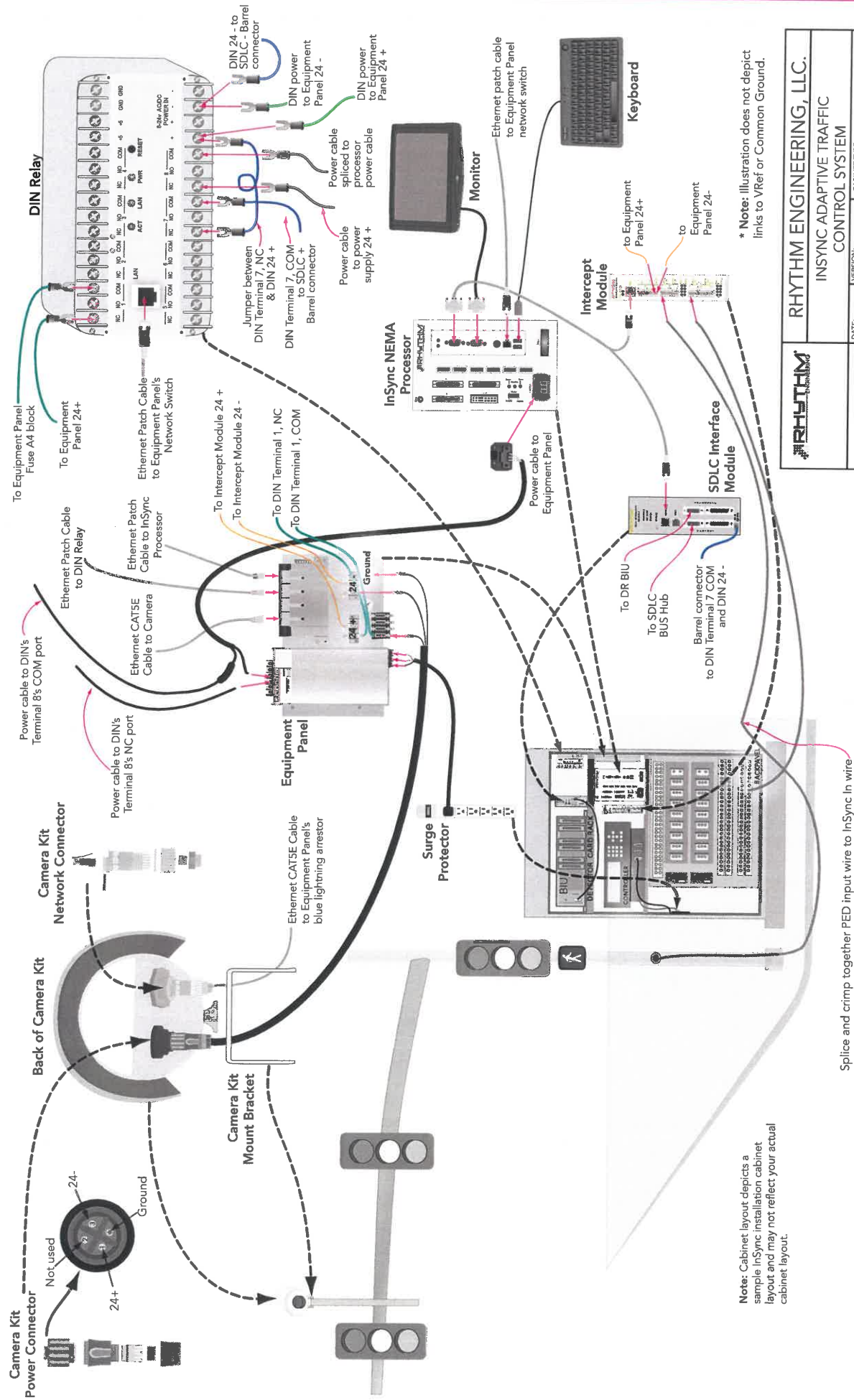
Other conductor counts are available upon request.

Part No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nom. O.D. (in.)	Approx. Wt. lb./1,000 ft.
2G-1402	14	2	0.025	0.045	0.350	56
2G-1403	14	3	0.025	0.045	0.370	72
2G-1404	14	4	0.025	0.045	0.400	90
2G-1405	14	5	0.025	0.045	0.430	110
2G-1406	14	6	0.025	0.045	0.465	126
2G-1407	14	7	0.025	0.045	0.470	141
2G-1408	14	8	0.025	0.045	0.500	167
2G-1409	14	9	0.025	0.060	0.610	192
2G-1410	14	10	0.025	0.060	0.610	205
2G-1411	14	11	0.025	0.060	0.610	225
2G-1412	14	12	0.025	0.060	0.630	244
2G-1414	14	14	0.025	0.060	0.670	280
2G-1415	14	15	0.025	0.060	0.680	299
2G-1419	14	19	0.025	0.060	0.740	368
2G-1424	14	24	0.025	0.080	0.890	458
2G-1202	12	2	0.030	0.045	0.410	74
2G-1203	12	3	0.030	0.045	0.430	103
2G-1204	12	4	0.030	0.045	0.470	130
2G-1205	12	5	0.030	0.045	0.510	159
2G-1206	12	6	0.030	0.060	0.580	191
2G-1207	12	7	0.030	0.060	0.590	222
2G-1208	12	8	0.030	0.060	0.610	258
2G-1209	12	9	0.030	0.060	0.730	294
2G-1210	12	10	0.030	0.060	0.730	309
2G-1211	12	11	0.030	0.060	0.730	338
2G-1212	12	12	0.030	0.060	0.750	367
2G-1214	12	14	0.030	0.060	0.790	441
2G-1215	12	15	0.030	0.060	0.805	478
2G-1219	12	19	0.030	0.080	0.925	605
2G-1224	12	24	0.030	0.080	1.060	747

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RHYTHM ENGINEERING, LLC.	
INSYNC ADAPTIVE TRAFFIC CONTROL SYSTEM	
DATE: 2/4/2015	VERSION: NEMA
EQUIPMENT: SDLC INTERCEPT MODULE & INTERCEPT MODULE	CABINET TYPE: NEMA

Camera & Enclosure
Includes Samsung Camera
Bolts to Camera Bracket SH-0514

Mast-Arm Mount Kit
Camera Bracket - Pelco SH-0514
Astro-Brac Pole - Pelco AB-2003
Astro-Brac Clamp Kit - Pelco AB-3009

