SINTRA®

Signalling Systems

SIGNALLING SYSTEMS

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Sintra products are manufactured according to the traffic and road safety standards.

Sintra products are used in 81 cities in Turkey and used in more than 50 countries around the world.

Power LED Signal Heads: TS EN 12368 certificated Power LED modules with IP 65 protection level. All housing materials are made of %100 UV PC.

Controllers: TS EN 50556 certificated, modular structure, green wave system adaptable, central software supported, programmable via computer, microprocessor based CPU.

Audible Pedestrian Signal: Audible signal for blinds, RILSA standards, warning signal voice level is arranged automatically according to the environment.

Infrastructure Equipments: Galvanized Signalling Poles with Highways and Municipality standards, corrosion resistant.

YERLİ ÜRETİM
TS EN 12368

SINTRA POWER LED SIGNAL HEADS

Diameter	200 mm
Housing / Mask Material Type	Polycarbonate (%100 PC)
Housing Color	Black / Grey-Black
LED	Power LED / Red, Yellow, Green
Light Distribution	Fresnel Lens
Power Factor	PF>0.9, THD<%20
Phantom Class	5
Power Consumption	8 Watt / Module
Certificate	TS EN 12368:2015

Product Types and Codes:

SN-04-02-200 | ∅ 200 mm Vehicle Signal Head with Sintra Power LEDs (Black / Sintra Housing)

SN-01-02-200 | ∅ 200 mm Vehicle Signal Head with Sintra Power LEDs (Black / Standard Housing)

SN-04-02-300 | ∅ 300 mm Vehicle Signal Head with Sintra Power LEDs (Black / Sintra Housing)

SN-01-02-300 | ∅ 300 mm Vehicle Signal Head with Sintra Power LEDs (Black / Standard Housing)

SN-04-02-275 | ∅ 200 mm Single Signal Head with Sintra Power LEDs (Black / Sintra Housing)

SN-01-02-275 | ∅ 200 mm Single Signal Head with Sintra Power LEDs (Black / Standard Housing)

SN-04-02-350 | ∅ 300 mm Single Signal Head with Sintra Power LEDs (Black / Sintra Housing)

SN-01-02-350 | ∅ 300 mm Single Signal Head with Sintra Power LEDs (Black / Standard Housing)

SN-04-02-201 | ∅ 200 mm Vehicle Signal Head with Arrow Figure (Black / Sintra Housing)

SN-01-02-201 | ∅ 200 mm Vehicle Signal Head with Arrow Figure (Black / Standart Housing)

SN-04-02-301 | ∅ 300 mm Vehicle Signal Head with Arrow Figure / Sintra Power LEDs (Black / Sintra Housing)

SN-01-02-301 | ∅ 300 mm Vehicle Signal Head with Arrow Figure / Sintra Power LEDs (Black / Standard Housing)

SN-04-02-250 | ∅ 200 mm Pedestrian Signal Head with Sintra Power LEDs (Black / Sintra Housing)

SN-01-02-250 | ∅ 200 mm Pedestrian Signal Head with Sintra Power LEDs (Black / Standard Housing)

SINTRA 200 MM POWER LED TRAFFIC SIGNAL MODULE
SY-01-041

Diameter	200 mm
Front Shell	Tinted, Clear
Color	Red, Yellow, Green
Light Intensity	400-800 cd
Light Source	Power LED
Power Consumption	8W
Operating Voltage	220-240 V AC 50/60 Hz
Phantom Class	5
Power Factor	>90%
Total Harmonic Distortion (THD)	<20%
IP Class	IP 65
Weight	700 g
Certificates	TS EN 12368:2015
Operating Temperature	-40°/+60°C

SINTRA 300 MM POWER LED TRAFFIC SIGNAL MODULE
SY-01-046

Diameter	300 mm
Front Shell	Tinted, Clear
Color	Red, Yellow, Green
Light Intensity	400-800 cd
Light Source	Power LED
Power Consumption	8W
Operating Voltage	220-240 V AC 50/60 Hz
Phantom Class	5
Power Factor	>90%
Total Harmonic Distortion (THD)	<20%
IP Class	IP 65
Weight	1100 g
Certificates	TS EN 12368:2015
Operating Temperature	-40°/+60°C

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TS EN 12368

POWER LED SIGNAL HEADS (ASYA)

Ø 100 mm :

Diameter (LED Module)	100 mm
LED Type / Color	5 mm LED / Red, Yellow, Green

Ø 200 mm & Ø 300 mm :

Diameter	200 mm / 300 mm
Housing /Mask Material Type	Polycarbonate (% 100 PC)
Housing Color	Black / Grey-Black
LED	Power LED / Red, Yellow, Green
Power Consumption	7 Watt / Module
Certificate (IP Class)	TS EN 12368 : 2015, IP 65
Phantom Class	3

Product Types and Codes:

SN-01-01-109: Ø100 mm Vehicle Signal Head with LEDs (Black / Asya Housing)

SN-01-01-111: Ø100 mm Pedestrian Signal Head with LEDs (Black / Asya Housing)

SN-01-01-200: Ø200 mm Vehicle Signal Head with Power LEDs (Black / Standard Housing)

SN-04-01-200: Ø200 mm Vehicle Signal Head with Power LEDs (Black / Sintra Housing)

SN-01-01-250: Ø200 mm Pedestrian Signal Head with Power LEDs (Black / Standard Housing)

SN-04-01-250: Ø200 mm Pedestrian Signal Head with Power LEDs (Black / Sintra Housing)

SN-01-01-275: Ø200 mm Single Signal Head with Power LEDs (Black / Standard Housing)

SN-04-01-275: Ø200 mm Single Signal Head with Power LEDs (Black / Sintra Housing)

SN-01-01-300: Ø300 mm Vehicle Signal Head with Power LEDs (Black / Standard Housing)

SN-04-01-300: Ø300 mm Vehicle Signal Head with Power LEDs (Black / Sintra Housing)

SN-01-01-350: Ø300 mm Single Signal Head with Power LEDs (Black / Standard Housing)

SN-04-01-350: Ø300 mm Single Signal Head with Power LEDs (Black / Sintra Housing)

SN-01-01-290: Ø200 mm Vehicle Signal Head with Arrow Figure / Power LEDs (Black / Standard Housing)

SN-04-01-201: Ø200 mm Vehicle Signal Head with Arrow Figure / Power LEDs (Black / Sintra Housing)

SN-01-01-380: Ø300 mm Vehicle Signal Head with Arrow Figure / Power LEDs (Black / Standard Housing)

SN-04-01-301: Ø300 mm Vehicle Signal Head with Arrow Figure / Power LEDs (Black / Sintra Housing)

SN-01-01-251 Ø200 mm Double Signal Head with Power LEDs Red\Green (Black / Standard Housing)

SN-04-01-255 Ø200 mm Double Signal Head with Power LEDs Red\Green (Black / Sintra Housing)

POWER LED SIGNAL HEADS (GE)

Diameter	200 mm / 300 mm
Hosing/Mask Material Type	Polycarbonate (%100 PC)
Housing Color	Black / Grey-Black
LED	Power LED / Red, Yellow, Green
Power Consumption	8 Watt / Module
Light Distribution	Fresnel Lens
Phantom Class	5
Sertifika	TS EN 12368:2015

Product Types and Codes:

SN-01-20-200: ∅ 200 mm Vehicle Signal Head with GE Power LEDs (Black / Standard Housing)

SN-04-20-200: ∅200 mm Vehicle Signal Head with GE Power LEDs (Black / Sintra Housing)

SN-01-20-250: ∅200 mm Pedestrian Signal Head with GE Power LEDs (Black / Standard Housing)

SN-04-20-250: ∅200 mm Pedestrian Signal Head with GE Power LEDs (Black / Sintra Housing)

SN-01-20-275: ∅ 200 mm Single Signal Head with GE Yellow Power LEDs (Black / Standard Housing)

SN-04-20-275: ∅ 200 mm Single Signal Head with GE Yellow Power LEDs (Black / Sintra Housing)

SN-01-20-300: ∅300 mm Vehicle Signal Head with GE Power LEDs (Black / Standard Housing)

SN-04-20-300: ∅300 mm Vehicle Signal Head with GE Power LEDs (Black / Sintra Housing)

SN-01-20-350: ∅ 300 mm Single Signal Head with GE Yellow Power LEDs (Black / Standard Housing)

SN-04-20-350: ∅300 mm Single Signal Head with GE Yellow Power LEDs (Black / Sintra Housing)

SN-01-20-220: ∅200 mm Vehicle Signal Head with Arrow Figure / GE Power LEDs (Black / Standard Housing)

SN-04-20-201: ∅200 mm Vehicle Signal Head with Arrow Figure / GE Power LEDs (Black / Sintra Housing)

SN-01-20-305: ∅300 mm Vehicle Signal Head with Arrow Figure / GE Power LEDs (Black / Standard Housing)

SN-04-20-301: ∅300 mm Vehicle Signal Head with Arrow Figure / GE Power LEDs (Black / Sintra Housing)

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100MM SIGNAL HEAD WITH POWER LEDS

Diameter (LED module)	100 mm
Housing / Mask Material Type	Polycarbonate (% 100 PC)
Housing Color	Black / Grey-Black
LED	Power LED / Red, Yellow, Green
Light Distribution	Fresnel lens and grey front lens
Power Consumption	5 Watt
PF and THD	PF>0,90 and THD <0,20

Product Types and Codes:
SN-04-01-100 ∅100 mm Vehicle Signal Head with Power LEDs (Black / Sintra Housing)
SN-04-01-101 ∅100 mm Power LED Signal Head with Triple Bicycle Figure (Black-Sintra Housing)
SN-04-01-150 ∅100 mm Pedestrian Signal Head with Power LEDs (Black-Sintra Housing)/
SN-04-01-152 ∅100 mm Power LED Signal Head with Double Bicycle Figure (Black-Sintra Housing)
SN-04-01-121 ∅ 100 mm Single Signal Head with Yellow Power LEDs (Black / Sintra Housing)

200 MM STOP / WALK SIGNAL HEAD WITH LEDS

SN-01-45-200

Diameter	200 mm
Housing Material	Polycarbonate (% 100 PC)
Housing Color	Black / Grey-Black
LED	9 mm / Red, Green
Light Distribution	Fresnel lens and grey front lens
Power Consumption	7 W / Module
Certificates	IP 65
Operating Voltage	12 V DC / 24 V DC / 220 V AC

LED TRAFFIC COUNTDOWN TIMER

Diameter	200 mm / 300 mm
Housing / Mask Material Type	Polycarbonate(%100 PC)
Housing Color	Black / Grey-Black
LED	5 mm / Red, Green
Power Consumption	15 Watt / Module
Certificates	TS EN 12368:2015

Ürün Çeşit ve Kodları:

SN-01-05-200: ∅ 200 mm Traffic Countdown Timer with LEDs (Black / Standard Housing)
SN-04-05-200: ∅ 200 mm Traffic Countdown Timer with LEDs (Black / Sintra Housing)
SN-01-05-250: ∅ 200 mm Animated Pedestrian Signal Head with LEDs (Black / Standard Housing)
SN-04-05-250: ∅ 200 mm Animated Pedestrian Signal Head with LEDs (Black / Sintra Housing)
SN-01-05-300: ∅ 300 mm Traffic Countdown Timer with LEDs (Black / Standard Housing)
SN-01-05-320: ∅ 300 mm Countdown Timer with 2.5 Digits LEDs (Black / Standard Housing)
SN-04-05-320: ∅ 300 mm Countdown Timer with 2.5 Digits LEDs (Black / Sintra Housing)
SN-04-05-300: ∅ 300 mm Traffic Countdown Timer with LEDs (Black / Sintra Housing)
SN-01-05-325: ∅ 300 mm Graphic Countdown Timer with LEDs (Black / Standard Housing)
SN-04-05-325: ∅ 300 mm Graphic Countdown Timer with LEDs (Black / Sintra Housing)
SN-01-05-350: ∅ 300 mm Animated Pedestrian Signal Head with LEDs (Black / Standard Housing)
SN-04-05-350: ∅ 300 mm Animated Pedestrian Signal Head with LEDs (Black / Sintra Housing)

200 MM ANIMATED PEDESTRIAN SIGNAL HEAD WITH TRAFFIC COUNTDOWN TIMER
SN-01-05-275

Diameter	200 mm / 300 mm
Weight	6 kg / 9 kg
Housing / Mask Material Type	Polycarbonate (%100 PC)

300 MM ANIMATED PEDESTRIAN SIGNAL HEAD WITH TRAFFIC COUNTDOWN TIMER
SN-01-05-375

Housing Color	Black / Grey-Black
LED	5 mm Red, Green
Power Consumption	30 Watt

800 X 600 MM TRAFFIC COUNTDOWN TIMER
SN-01-05-500

Size	800x600 mm
Weight	24 kg
Housing / Mask Material Type	Metal
Housing Color Black	LED 5 mm / Red, Yellow, Green
Power Consumption	30 Watt

400 X 600 MM TRAFFIC COUNTDOWN TIMER
SN-01-05-502

Size	400x600 mm
Weight	15 kg
Housing / Mask Material Type	Metal
Housing Color Black	LED 5 mm / Red, Yellow, Green
Power Consumption	17 Watt

520 X 470 MM, 2 COLORS GRAPHIC COUNTDOWN TIMER
SN-01-05-501

Size	520x470x100 mm
Weight	8 kg
Housing Type	Aluminium
Housing Color	Black
LED	5 mm / Red, Green
Power Consumption	5 Watt

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ACCESSIBLE PEDESTRIAN TOUCH BUTTON
SN-07-008

Dimension	120x270x84 mm
Weight	2 kg
Body Type	Polycarbonate
Body Color	Yellow – Black
Operating Voltage	220 V AC
Voice Level	Automatic / Acoustic Characteristic (According to the Environment dB Level)
Detection	Touch Sensor

ACOUSTIC AUDIBLE PEDESTRIAN TOUCH BUTTON
SN-07-006

Dimension	24x97x106 mm
Weight	950 g
Body Type	Polycarbonate
Body Color	Yellow – Black
Operating Voltage	220 V AC
Voice Level	Automatic / Acoustic Characteristic (According to the Environment dB Level)
Detection	Touch Sensor

ACOUSTICAL SIGNAL TRANSMITTER FOR PEDESTRIANS
SN-07-005

Dimension	28x18x13,5cm
Weight	1,9 kg
Body	%100 PC, Black
Operating Voltage	220 V
Intended Use	Audible warning for blinds
Voice Level	Automatic, according to the environment dB level
Sound Tone Intensity	30-90 dB
Sound Tone	Warning messages or "Beep" tone

OVERHEAD SIGNAL POLE
SN-05-600

Protection	Galvanised
Pipe Type	139 x 5 mm, 114 x 4 mm, 89 x 4 mm
	Cylindrical iron pipe
Standard	TS 301/2, Turkish Directorate of Highways Standards
Height	6 mt

STANDARD SIGNAL POLE

SN-05-001

Protection	Galvanised
Pipe Type	114 x 4 mm Cylindrical iron pipe
Standard	TS 301/2, Turkish Directorate of Highways Standards
Height	4 mt

TAG POLE
SN-05-200

Protection	Galvanised
Pipe Type	159 x 5 mm Cylindrical iron pipe
Height	6 mt
Length	Between 10 - 15 m according to the road

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MAESTRO INTERSECTION CONTROLLER

- The Turkish Standards Institute (TSE) approval (TS EN 50556)
- Microcontroller-based modular structure
- Easy programming with the Bluetooth or USB interconnection
- Up to 32 signal groups, 32 and 32 isolated from the loop detector input
- Precision lamp current and voltage controls and secure signaling
- 4, 8, 12, 16, 20, 24, 28 and 32 group opportunities
- Ethernet, GPRS and SMS remote connection options
- 2 separate programming interface for new and experienced users
- All entries for the measurement of compliance with the census and occupancy rate
- External connections for 2 x USB port (PC, GSM, GPS, etc.).
- 16 units 16 units in different phases defined in phase and signal plan
- 48 units 16 units the signal sequence using the steps described in step
- Traffic Adaptive mode of operation for the logical function blocks
- Opening and closing sequences
- In order to avoid the unsafe or defective signalisation traffic signal plans for using the signal outputs to simulate
- The status of normal and fault modes flash, flash colors and frequencies
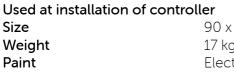
Product Types and Codes:
SN-06-01-100: 4 gr Maestro Pedestrian Controller
SN-06-01-101: 8 gr Maestro Intersection Controller
SN-06-01-102: 12 gr Maestro Intersection Controller
SN-06-01-103: 16 gr Maestro Intersection Controller
SN-06-01-104: 20 gr Maestro Intersection Controller
SN-06-01-105: 24 gr Maestro Intersection Controller
SN-06-01-106: 32 gr Maestro Intersection Controller

Product Types and Codes:
SN-06-01-150: SSM Module
SN-06-01-151: CPU Module
SN-06-01-152: MMI Module
SN-06-01-153: PSM Module
SN-06-01-154: BP Module
SN-06-01-155: IO Module 8 Button

INTERSECTION CONTROLLER STAND
SN-10-001

Used at installation of controller
Size	90 x 79 cm
Weight	17 kg
Paint	Electrostatic Paint

INTERSECTION CONTROLLER STAND (POLE TYPE)
SN-10-005

Used at installation of controller
Height	150 cm
Protection	Galvanized
Weight	24 kg

COMPOSITE MANHOLE COVER (COMPOSITE JOINT BOX)
SN-10-023

Dimensions	40x40x40 cm
Weight	20 kg
Material Type	Fiber Reinforced Plastics
Body Thickness	10 mm
Bending Strength (Mpa)	Min. 150
Barcol Hardness (Kj/m^2)	Min 35
Water Absorption (%)	Max. 70 mg.
Density (Gr/Cm^3)	Min. 1,5
Incombustibility Class	Bff S 1

MANHOLE COVER
SN-10-015

Material Type	Galvanised
Metal Size	40 x 40 cm
Weight	7,5 kg

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GREEN WAVE SATELLITE MODULE (GPS)
SN-15-010

Synchronization	GPS
Compatible Device	Maestro, Master
Intended Use	Green Wave System

FLASHER DEVICE
SN-15-020

Operating Voltage	220 V / 12 V
Product Type	In the LED module or on the pole
Intended Use	Switch to flash position

PEDESTRIAN BUTTON
SN-07-001

Compatible Pole	Standard / Overhead Pole
Compatible Device	All devices which have pedestrian button output.
Intended Use	Used when pedestrians want to pass across the road.

8 GROUP POLE TYPE PEDESTRIAN CONTROLLER
SN-15-041

Size	400 x 400 x 200 mm
Weight	9 kg
Technical Details	8 group periods, can be adjusted by a computer program.
Installation	with 2 pcs pole clamps.

POLE TYPE PEDESTRIAN CONTROLLER
SN-15-040

Dimensions	400 x 300 x 170 mm
Weight	4,50 kg
Technical Details	4 groups, periods can be loaded by computer program
Installation	with 2 pcs pole clamps

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