

ANTI CRANE COLLISION SWITCH



INFRA SYSTEM offers Anti Crane Collision System for two over head cranes on the same rail. With these units, the two cranes on the same rail will never collide with each other & thus the damage caused due to collision can be saved. When the two cranes come within the range, the moving crane will be stopped immediately. For two set points, one can be adjusted to get an alarm at required distance and another can be set to stop the crane at required distance. Laser Alignment Tool is offered in ACC type models for perfect alignment of Sensor unit and reflector. Using this exact location of reflector on the other crane can be found for perfect working of system.

Models are offered depending upon the range and input supply. Following are the models:
1. **ACC 03**: 3 meter range 2. **ACC10**: 10 meter 3. **ACC15**: 15 meter range 4. **ACC 102**: 10 meter and Two relay output

DIGITAL COUNTER/TIMERS/CONTROLLERS



Production & Preset Counter - Used for object counting available in 48x96 size, 6 and 8 digits. Offers relay output when set value is reached. Accepts input from proximity/IR sensor or Limit Switch.
Preset Length & Line speed Indicator - Used to count length of cloth, film, paper. Displays length directly in meters/ Feet. Line speed indicator is used to display linear speed in meters/Minutes.
RPM Indicator - Displays RPM of rotating shaft/object. Also available with retransmission Analog output (0-5,0-10VDC) and Digital (TTL) output. Available in dimensions 48x96, 63x38x82 mm.
Thumbwheel preset Counter & Down Timer - Used to preset the value using thumbwheel switches for counting and for timing (hrs/mins/sec) with relay output facility. Along with 1/2 inch display size.
Time totalizer/Hour Meter - Used to display readings in Hours, Minutes. Timing pulse internally generated. Input from sensor or potential free contact with memory backup facility.
Dual Display Flow rate Indicator - Used to display flow rate flow rate, A/D input from flow sensor

BIG/JUMBO DISPLAYS



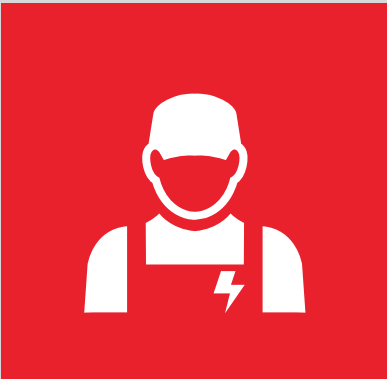
Production & Preset Counter - Available in 4 and 6 digits with 1 inch, 2 inch, 4 inch, 6 inch & 12 inch digit height. Sensor to be connected directly. Key pendant for reset and preset value settings is available. Input speed selection facility available. Display is Seven Segment display and LED type.
RPM Indicator/ Speed Switch - Displays RPM of any rotating shaft or objects. Available in 1 inch, 2 inch, 4 inch, 6 inch in 4 digit. Input available are PNP/ NPN/ Micro/ Limit Switch.
Modbus Display - Input available are RS485 MODBUS RTU, Input from PLC, Computer or any device with modbus output. Input data will be in integer or float form.
Digital Clock - This is a HANG ON type wall mounting clock, very useful for factories, schools, offices, public places. Displays time in digital format in hrs and minutes. Both side display can be offered.
Customized Display - Offers displays with multiple input (Digital and Analog) and output as per customer's requirement. Display can be offered in different sizes.



REDINFRA SYSTEMS PVT. LTD.

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Area/Security/Obstacle Avoidance Sensor

Infra System offers Safety Light Curtains. 2 Outputs Model also available. which available in following three main categories:
1. Hand Protection 2. Finger Protection 3. Body protection/ Part of Body.

Parallel beam and Cross Beam type models from ht. 90mm to 2000 mm. Inbuilt Controller facility where supply of the sensor is 24V DC and can directly connected to PLC. Controllers are available with supply voltage 230V AC, in Wall mounting, Panel & DIN Rail mounting. Self-checking facility provided for internal checking of the circuit for better operation. Multiple LED indications provided for operator to better understand the working.

Applications: Power Presses, Molding Machines, Robots, Welding presses, Bending machines and SPMs for operator's safety while working. For object height detection, Bin sensor for assembly line. Specifications: Output: PNP or NPN, Pitch offered: 20, 30, 40, 50, 90 mm. Adjustable Range: Upto 15 mtrs, Sensor voltage 24 Volts DC, Connections through plugin Connectors.



Power Supply	12 - 24 Volts DC
Supply Protection	Reverse Polarity Protected
Output	Single/dual Output (PNP or NPN / NO or NC)
Output Indications	Through Leds
Channel Indication	Led Indication For Each Channel
Response Time	On To Off : 10 - 15 M Sec. Off To On : 50 - 100 M Sec
No Of Beams	6, 10, 12, 16, 18, 24, 30, 36, 40, 48, 54, 60
Beam By Pass	Provided To Finger/hand/body Protection Models
Protected Heights	100-3000 In mm
Pitch Offered	20, 30, 40, 50 In mm
Adjustable Range	Up To 3 Meters (higher Range Up To 5,10,15,20 Meters Available)
Standard Cable Length	5 Meters For Emitter, 3 Meters For Receiver
Operating Temperature	Up To 55°c
Cross Section In Two Types	30x30x(L) & 17x35x(L)
Electrical Connections	Plug In Connector For Emitter & Receiver
Applicable To	Directly Work With Plcs / Controllers
Protections	Output Short Circuit Protected
Suitable For	Machines With Quick Emergency Stop

DIFFUSE SCAN SENSORS



Dia M18/M12 Diffuse Sensor : Cylindrical Housing. Sensing range 100 / 300 / 500 mm. This range is specified with white photographic paper. Output NPN/PNP and NO/NC, 3 or 4 wire available.
Rectangular Diffuse Sensor : Sensing range 300 / 1000/ 2000 mm. This range is specified with white photographic paper. Output NPN/PNP and NO/NC, 3 or 4 wire available.
4 Wire type - 100 / 300mm also available in 4 wire type PNP / NPN and NO or NC
AC Type - 2 Wire AC Diffuse sensor available in 230V / 110V AC power supply with NO or NC output
Connector Type - Diffuse sensor available in 4 pin connector type for DC supply.
Visible / Narrow Beam -Available with visible / Narrow beam where to sense small object
Extended Type - Sensor part available in 6 / 8 / 12mm housing and amplifier is in M 18 housing , It is used in area where space constraints problem
Laser Diffuse - laser diffuse sensor is used to sense very small object with range 300mm.

THROUGH BEAM / RETROREFLECTIVE SENSORS



THROUGH BEAM SENSOR
Set Consists : Transmitter and Receiver , Housing : M 18 / 12 as well as rectangular ABS plastic housing, Sensing range 1 / 3 / 10 / 20 / 30mtr
Connector Type - Available in 4 pin connector type also
Visible / Narrow Beam -Available with visible / Narrow beam where to sense small object
Extended Type - Sensor part available in 6 / 8 / 12mm housing and amplifier is in M 18 housing , It is used in area where space constraints problem
Laser Through Beame- laser diffuse sensor is used to sense very small object with 3 mtr range
RETROREFLECTIVE SCAN SENSOR
Set consists: Sensor and Reflector, Housing M18 / M 30 and Rectangular Type with Sensing Range 300mm / 3 mtr / 5 mtr / 8 mtr , It is also available in connector type with 4 pin connector

SLOT SENSORS & CONTROLLER



Slot Sensors available with slot width of : 5 / 20 / 50 / 100 mm and Slot depth 45mm. Housing : ABS plastic. It is through beam type and output is available when beam is interrupted. Output available are NPN or PNP and NO or NC type.
Lable sensor - Here slot width is 3 mm. Lable sensor has facility of TEACH function . This is mainly used for sensing Labels on the butter paper on automatic packing machines at high speeds.
Window Sensor - Specialised window to sense small objects. This sensor operates on multiple beam technique. It has an array of multiple emitter and receiver which forms a continuous screen.
SENSOR CONTROLLER
Controllers available with single relay output / Two relay output, Timer type (On delay / OFF delay), Monostable, Bistable, also combination of input 2 sensors , 4 sensors with relay output, logic AND / OR / Hopper level etc. Also available with customised requirement.

INDUCTIVE/ CAPACITIVE PROXIMITY SWITCHES



Inductive Proximity Switches- These are used for sensing ferrous material. They are available in 6, 8, 12, 18, 30, 36mm diameter with DC / AC Type. Ranges available for the inductive are 1, 2, 4, 5, 8, 10, 15, 20 mm respectively in flush and Non Flush type.
Capacitive Proximity Switches- These are used to sense non-metallic material such as plastic, paper etc. Available in 18, 30 diameter with DC/ AC Type. Ranges available are 6, 15 mm respectively in Non Flush type. It has an adjustable pot facility.
Analog Proximity Sensors- For ferrous metal objects, these sensors (M18 & M30) provide 0-10 VDC analog output, proportional to the sensing distance. Range for M18 is 2-7 mm and for M30 is 2-10 mm.
Reed Switches- Also known as Cylinder Position Sensor used with Pneumatic Cylinders for positioning purpose. Available in 2-Wire, 3 Wire-PNP/NPN output with LED indications & 2mtr cable.

CYLINDER POSITION SENSOR



We are engaged in offering our clients a high quality range of **Cylinder Position Sensor**. Our provided cylinder position sensor is developed by highly skilled professionals using finest grade raw material & latest technology keeping in sync with the norms of industry. Offered cylinder position sensor is stringently tested on various parameters in order to deliver defect-free range. We offer this cylinder position sensor in various technical specifications and can be custom design in order to meet the diverse requirements of the customers.
Features:

- LED output indications
- Accurate dimensions
- Corrosion-resistance

M8/M12/M18 Connector Cables



INFRA SYSTEM offers various types of connector cables to be used for Connector type proximity and infrared sensors.
M12/M18 Female or Male Connector Cable- Available in 4 pin / 5 pin straight and L-type with 2, 3, 5, 10 meter cable lengths.
M8 Female or Male Connector Cable- In 3 pin / 4 pin straight with 2, 3, 5, 10 meter cable lengths
M12/M18 Female Connector Cable with LED indications- Available in 4 pin with Power and output LED indications.
Male+ Female Connector Cable- Available in one side male and other side female connector with 2, 3, 5, 10 meter.
Female/ Male screw type connector- Available in straight and L-type. Customer can join cable using screw at their end.