ANT 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 set to stop the crane at required distance.

System Alarm 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 inputs/output. Following are the models:
1. ACC-08: 3 meter range 2. ACC-10: 10 meter range 3. ACC-15: 15 meter range 4. ACC-20: 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 used to display linear speed in meters/minutes.

RPM Indicator: Displays RPM of rotating shaft/object. Also available with tachomission analog output (0-5-0-10VDC) and Digital (TTL) output. Available in dimensions 48x96, 53x38x82 mm.

Thumbwheel preset Counter & Down Timer: Used to preset the value using thumbwheel switches for counting and for timing (min/sec) with relay output below. Along with display size.

Time timer/Hour Meter: Used to display 15 readings. In Hours, Minutes. Timing pulse in internally generated inputs signal or potential free output with memory back option.

Dual Display Flows rate Indicator: Used to display flow rates. A/B input from flowsensor.

BIG/JUMBO DISPLAYS

Production & Preset Counter: Available in 4 and 6 digits with 2inch, 2inch, 2inch, 6 inch & 12 inch digit height. Sensor to be connected directly. Key pended for reset and preset value settings is available. Input speed selector facility available. Display is Seven Segment display and LED type.

RPM Indicator / Speed Switch: Displays RPM of any rotating shaft or objects. Available in 1inch, 2inch, 4inch, 3 inch and 4 digits. Input available are Ph/P, RPM, Kitch/Hertz, etc.

Modbus Display: Input available are Rs485 MODBUS RTU, input from PLC, computer or any device with modbus Output. Input data will be integer or float form.

Digital Clock: This is a HANG ON type wall mounting clock. Very useful for factories, schools, office, public places. Displays time in digital format in hours and minutes. Both side display can be offered.

Customized Display: Offset display with multiple input (Digital and Analog) and output as per customer’s requirement. Display can be offered in different sizes.

INFRA SYSTEM offers Safety Mats which are used to safeguard personnel around machinery from movement near hazardous area of machines like hydraulic press, scissor lift, punch press, heavy-duty machines. It acts as an emergency switch when any person steps on this safety mat and gives an output to stop the machine.

APPLICATIONS

For Safety of person working on the machines. When he/she steps on the safety / pressure mat, then it gives switching output to stop the machine from operation and thus helps to safeguard the person near to the hazardous machines.
SAFETY LIGHT CURTAINS/SAFETY GUARD

Infra system offers Safety Light Curtains. 2 Outfits 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 90mm to 1500mm

Built-in 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, Robotic, Welding presses, Bending machines and SPMs for operator’s safety while working.
- Object height detection. Binsensor for assembly line.

Specifications:
- Output: NPN or NPN, Pitch offered: 20, 30, 40, 50, 90 mm
- Adjustable Range: Up to 15 mm
- Sensor voltage 24V DC, Connections through plug in Connectors.

Models Protected Overall Pitch Beam
SLC 0630 150 245 30 6
SLC 0640 200 350 40 6
SLC 0830 210 295 30 8
SLC 0840 280 370 40 8
SLC 1030 270 360 30 10
SLC 1040 360 455 40 10
SLC 1220 220 320 20 12
SLC 1230 330 420 30 12
SLC 1240 440 530 40 12
SLC 1630 450 550 30 16
SLC 1640 600 600 40 16
SLC 2440 920 1005 40 24
SLC 0890 630 730 90 8
SLC 1290 990 1080 90 12
SLC 1690 1592 1450 90 16

All the models are also available with 06.

SLOT SENSORS & CONTROLLER

Slot Sensors available with slot width of 5 / 20 / 50 / 100 mm and Slot depth 45 mm. Housing: ABS plastic. It is through beam type and output is available when beam is interrupted. Output available are NPN or PNP and N/O/N/C type.

Lable sensor - Here slot width is 3 mm. Label sensor has facility of O/T/G/F/ function. This is mainly used for sensors labeling on the paper or 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 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. 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 inductive are 1, 2, 4, 5, 8, 10, 15, 20 mm respectively in flux and Non flux type.

Capacitive Proximity switches - These are used to sense non-metallic material such as plastic, paper etc. Available in 18, 30, 36mm diameter with DC / AC Type. Ranges available are 6, 15, 20 mm respectively in Non Flush type. It has large adjustable set point.

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 position purposes. Available in 2-Wire, 3-Wire NPN/NPN output with LED indications & mtr 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

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 also

Visible / Narrow Beam - Available with visible / Narrow beam where to sense small object

Extended Sensor: Available in 6 / 12 / 18mm housing and amplifier 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.

M8/M12/M18 Connector Cables

INFRASYSTEM offers various types of connector cables to be used for Connector type proximity and infrared sensors.

M12 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 3pin/ 4pin straight with 3, 2.5, 10 meter cable lengths.

M12 Female or Male Connector Cable with LED Indications - Available in 4 pin straight. 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 joinable using screw at the end.