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 & reduce damage caused due to collision 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 ensured for perfect working of system.

Models are offered depending upon the range and inputsupply. Following are the models:

1. ACC opt 3 meter range 2 ACCopt: 10 meter 3. ACCopt: 15 meter range 4. ACC opt: 10 meter and Two relay output

DIGITAL COUNTER/TIMERS/CONTROLLERS

Production & preset counter - Used for object counting available in 4x6x6 size, 6 and 8 digits. Offers relay output when set value reached. Accepts input from proximity/IR sensor or Limit Switch.

Preset Length & Line speed Indicator - Used to count length of cloth, film, paper. Display length directly in meters/feet. Line speed Indicator is used to display line speed in meters/minutes.

RPM Indicator-Speed Switch - Displays RPM of rotating shaft or objects. Available in 1 inch, 2 inch, 4 inch, 6 inch 4 digit input. Available in PNP/NPN/Micro Limit Switch.

Modular Display - Input available on 84x20, 32x8 RTU. Input from PLC, Computer or any device with modular output. Input data will be integer or float format.

Big Jumbo Display: This is a SMD type wall mounting clock, very useful for factories, schools, offices, public places. Displays time in digital format in hours and minutes. Both side display can be offered. Customized Display of hrs. displays with multiple input (Digital and Analog) and output as per customer's requirement. Display can be backlit in different colors.

SAFETY LIGHT CURTAINS/SAFETY GUARD

Infra system offers Safety LightCurtain. 2 Outputs Model also available which is available in following three main categories:

1. Light Protection
2. Safety Protection

Parallel Beam / anti-Beam type models from 50mm to 1500mm.

Infocart Controller facility where supply of the are less than 24V DC and can be directly connected to PLC.

Controllers are available with supply voltage 230V AC, 12 V Wall mounting, Panel & DIN Rail mounting.

Self-checking facility provided for continuous checking of the circuit for better operation.

Multiple LED indications provided for operator to better understand the working.

Applications: Power Presses, Molding Machines, Robotic systems, Bending machines and other machines that requires operator's safety while working. Kerf object height sensors, Sensor for assembly line system.

Specifications: Output - PNP or NPN, Pitch offered - 10 mm to 150 mm, 250 mm, Voltage sensor 24 V DC, Connections through plug-in Connectors.

BIG/JUMBO DISPLAYS

Production & preset counter - Available in 4 and 6 digits with 3inch, 2inch, 4inch, 6inch & 12 inch digit height.

Sensor to be connected directly. Key parameter for preset and preset value settings is available. Input speed selection/selection available.

Display is Seven Segment display and LED type.

RPM Indicator-Speed Switch - Displays RPM of rotating shaft or objects. Available in 1 inch, 2 inch, 4 inch, 6 inch 4 digit input. Available in PNP/NPN/Micro Limit Switch.

Output Indications: Through LEDs

Cross Section: 36 x 40 mm

Pitch offered: 2 x 10 - 30 - 40 - 50 mm

Adjustable Range: 0 - 5 meters (higher range available)

Electrical Connections: 4-Prong Connector for Emitter & Receiver

Standard Cable length: 5 meters for emitter & 3 meters for receiver

Operating Temperature: up to 90 Degree celsius

Frosting Value: Mode: Solid Slot on the back with adjustable height

Cross Section: 30 x 40 mm

Relevant to: Directly work with PLCs / Controllers

Suitable for: Machines with quick emergency stop

Protection: Output short circuit protected.

Height: 70 mm + 40 mm (max) when source to place source to respond - receiver + 3000 lux when source placed at an angle of 20 degrees

DIFFUSE SCAN SENSORS

Dia M8/M10 Diffuse Sensor - Cylindrical Housing. Sensing range x 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.

1 Wire type: 100 / 300/400 mm also available in 4 wire type PNP / NPN and NO or NC.

AC Type - 2 Wire AC type sensor available at 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 / 6 / 12mm housing and amplifier is in M18 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 Sensors

Set Consists: Transmitter and Receiver, Housing M8 / M12 as well as rectangular ABS plastic housing. Sensing range x 3 / 5 / 10 / 20 / 30/50 /100 mm.

Connector Type - Available in 6 pin connector type also.

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

Extended Type - Sensor part available in 6 / 6 / 12mm housing and amplifier is in M18 housing. It is used in area where space constraints problem.

Laser Through Beam - Laser sensor is used to sense very small object with 3 mtr range

Retroreflective Sensors

Set consists: Sensor and Reflector, Housing M8 / M10 and Rectangular Type with Sensing Range 300mm x 3 / 5 / 10 / 20 / 30 /50 /100 mm.

Connector Type - Also available in 6 pin connector type with 3 mtr range

SLOT SENSORS

Slot Sensors available with slot width of: 5 / 20 / 50 / 100 mm and Slot depth height. 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 or AC type.

Cable sensor - Here slot width is 3 mm. Cable sensor has facility of OFF/ON function. This is mainly used for sensing labels on pepper paper or automatic machines at high speeds.

Window Sensor - Specialised window to sense small objects. This sensor operates on multiple beam principle. It has array of multiple emitter and receiver with continuous or interrupted beam.

SENSOR CONTROLLER

Controllers available with single relay output / 2 relay output, Timer type (On delay / Off delay), Monotonic, Binable, also combination input 2mA sensors, 4mA with tri-state output, logic 24V / 0V / Hoppered etc. 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, 15, 30, 40mm diameter with DC / AC Type. Range available for industrial use are 1, 2, 4, 5, 8, 10, 15, 20 mm respectively in NPN and N.O switch.

Capacitive Proximity Switches - These are used to sense non-metallic material such as plastic, paper etc. Available in 18, 30, 30, 60mm diameter with DC / AC Type. Range available are 6, 15 mm respectively in NPN and N.O switch. It has range adjustable potentiometer.

Analog Proximity Sensors - For Ferrous metal objects, these sensors (M18 & M30) is provides 0-10VDC analog output, proportional to sensed distance, Range for M18 is 1-2.7 mm and for M30 is 5-10mm.

Read Switches - Also known as Cylinder Position Sensor used with Pneumatic Cylinders for positioning purpose. Available in 2-Wire, 3 Wire PM (P)I/P with LED indication & 2mm 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. Offer this cylinder position sensor in various technical specifications and can be customized in design to meet the diverse requirements of the customers.

Features:

1. LED output indications
2. Accurate dimensions
3. Corrosion-reistance

M8/M12/M18 Connector Cables

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

M8/M12 Female Connector Cable - Available in 4 pin 5 pin straight and - type with 2, 3, 5, 10 meter cable lengths.

M10 Female / Male Connector Cable - In Spoc 4pin straight with 2, 3.5, 10meter cable lengths.

M8/M10 Female Connector Cable with LED Indications - Available in 6 pin with Power and Output LED indications.

Male-Female Connector Cable - Available in side male and 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 waterproof.