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Infra Red Diffuse Scan Sensors	Page 3
Infra Red Retro-reflective Sensors	Page 4
IR Sensors for Specific Applications	Page 4
Infra Red Slot Sensors	Page 5
Infra Red Through Beam Sensors	Page 5
Digital Counters	Page 6
Digital Counters / RPM / Dual Display	Page 7
Digital Timers	Page 7
Universal / Process Indicators	Page 8
Temperature Indicators / Controllers	Page 8
Big Displays : 6 Inch / 4 Inch / 2 Inch / 1 Inch	Page 9
Safety Light Curtains	Page 10
Safety Light Curtains : Models	Page 11
Safety Light Curtains Applications	Page 12
Anti - Crane Collision Sensors	Page 13
Proximity Switches	Page 14
Proximity Switches : Analogue	Page 14
Reed / Cylinder Position Sensor	Page 14
Proximity Switches : Inductive - DC & AC	Page 15
Proximity Switches : Inductive - 2 Wire DC	Page 15
Proximity Switches : Capacitive - DC	Page 15
Level Sensors	Page 16
Energy Saving Products	Page 16
Energy Saving Products	Page 17
Signal Converters	Page 18



INFRA RED SENSORS

DIFFUSE SENSOR	DIFFUSE SENSOR	DIFFUSE SENSOR
IRD 181 / 381 / 581 : NPN - NO or NC IRD 183 / 383 / 583 : PNP - NO or NC	IRD 180 : 4 Wire Sensor NPN & PNP / NO or NC Selectable	IRD 181 AC : AC NO IRD 182 AC : AC NC



3 Wire Sensor	4 Wire sensor	Two Wire Sensor
Range : 100 mm / 300 mm / 500 mm	Range : 100 / 300 mm	Range : 100 mm
Dimensions : 18 D x 60 / 75 L mm	Dimensions : 18 D x 60 L mm	Dimensions : 18 D x 75 L mm
Output : PNP or NPN	Output : PNP and NPN	Output : NO or NC
Output current : 200 mA	Output type : NO / NC selectable	Supply : 110 / 230 V AC
Protection : Short ckt / Reverse Polarity	Output Current : 200 mA	Output Current : 200 mA
With Sensitivity Adjustment	Protection : Short Circuit /Reverse Polarity	Housing : ABS Plastics
Supply : 10 - 30 V DC	With Sensitivity Adjustment	
Connector models available	Supply : 10 - 30 V DC	

DIFFUSE SENSOR	DIFFUSE SENSOR	DIFFUSE SENSOR
IRD 121 / 122 : NPN - NO / NC IRD 123 / 124 : PNP - NO / NC	IRD 311/2 : NPN - NO/NC Selectable IRD 313/4 : PNP - NO/NC Selectable	IDX 11/31 : NPN - NO or NC Selectable IDX 13/33 : PNP - NO or NC Selectable



3 Wire sensor	Range : 1 meter. / 2 meters	Range : 300mm / 1 mtr.
Range : 100 mm	Dimensions : 30 D x 65L mm	Dimensions : 17 x 50 x 55 mm
Dimensions : 12 D x 80 L mm	Output : PNP or NPN	Housing : ABS Plastic
Output : PNP or NPN	Output type : NO or NC Selectable	Output : PNP or NPN
Output type : NO or NC	Housing : Plated Brass	Output type : NO or NC Selectable
Housing : Plated Brass	With Sensitivity Adjustment	With Sensitivity Adjustment
Supply : 10 - 30 VDC	Supply : 10 - 30 V DC	Supply : 10 - 30V DC
Output Current : 200 mA	Output current : 200 mA	Output current : 200 mA
Protection : Short Circuit /Reverse Polarity	Protection : Short Circuit /Reverse Polarity	Protection : Short Circuit /Reverse Polarity

DIFFUSE SENSOR	DIFFUSE VISIBLE LIGHT	DIFFUSE SENSOR
EXD 06 / 08 / 12 EXTENDED HEAD NPN or PNP - NO or NC	IRD 181 V / 381 V : NPN - NO or NC IRD 183 V / 383 V : PNP - NO or NC	IDX 41 / 42 : NPN - NO / NC IDX 43 / 44 : PNP - NO / NC



Range : 10 mm / 10 mm / 100 mm resp.	Range : 100 mm / 300 mm	Range : 200 mm
Dimensions : 18 x 75 mm - Amplifier	Dimensions : 18 D x 60 L mm	Dimensions : 40 x 28 x 13 mm
With Sensitivity Adjustment	Output : PNP or NPN and NO or NC	Output : PNP or NPN : NO or NC
Supply : 10 - 30V DC	Housing : Plated Brass	Housing : ABS Plastic
Output current : 200 mA	With Visible beam for targeting object	With Sensitivity Adjustment
Protection : Short Circuit / Reverse Polarity	With Sensitivity Adjustment	Supply : 10 - 30V DC
Sensor Housing : Plated Brass	Supply : 10 - 30V DC	Output current : 200 mA
Extended Sensor Dia : 06 / 08 / 12 mm	Output current : 200 mA	Protection : Short Circuit Protection
Extended Sensor Length : 25 mm	Protection : Short Circuit /Reverse Polarity	Protection : Reverse Polarity Protection

INFRA RED sensors

RETRO REFLECTIVE SENSOR	RETRO REFLECTIVE SENSOR	RETRO REFLECTIVE SENSOR
IRR 181 / 381 - NPN NO / NC Select IRR 183 / 383 - PNP NO / NC Select	IRX 11 NPN - NO or NC Selectable IRX 13 PNP - NO or NC Selectable	IRX 31 NPN - NO or NC Selectable IRX 33 PNP - NO or NC Selectable



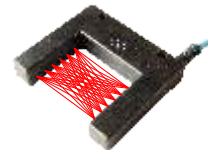
Dimensions : 18 x 75 mm cylindrical	Dimensions : 55 x 50 x 17 mm	Dimensions : 55 x 50 x 20 mm
Range : 300 mm / 3 mtr.	Range : 1 meter	Range : 3 meter
Housing : Plated Brass	Housing : ABS Plastic	Housing : ABS Plastic
Output : PNP or NPN	Output : PNP or NPN - 3 wire	Output : PNP or NPN - 4 wire
Output Type : NO or NC Selectable	Output Type : NO or NC Selectable	Output Type : NO or NC Selectable
With Sensitivity Adjustment	With Sensitivity Adjustment	With Sensitivity Adjustment
Supply : 10 - 30 VDC	Supply : 10 - 30 VDC	Supply : 10 - 30 VDC
Output current : 200 mA	Output current : 200 mA	Output current : 200 mA
Protection : Short Ckt / Reverse Polarity	Protection : Short Ckt / Reverse Polarity	Protection : Short Ckt / Reverse Polarity

REGISTRATION MARK SENSOR	PPD / CONTROLLERS	ZERO SPEED SWITCH
MS 10 : NPN NO - NC MS 20 : PNP NO - NC	PPD (STD) PPD T 1 T 2 (Timer)	ZSP 101 ZSP 102



Supply : 10 - 24 V DC	Supply : 230V AC / 110V AC	Supply : 230V AC / 110V AC
Range : 12 ± 2 mm	Dimensions : 61 x 71 x 110 mm	Dimensions : 61 x 71 x 110 mm
Dimensions : 93 x 67 x 37 mm	Output : Relay changeover	Housing : DIN Rail (Plastic)
Light ON / Dark ON : Selection by switch	Input type : NPN or PNP Sensor	Output : Potential free relay contact
Housing : Metal	Sensor Supply : Built-in 12V DC	Zero RPM setting : Adjustable
With Sensitivity Adjustment	Sensor Current : 100mA	Sensor Supply : Built-in 12V DC
Output : PNP or NPN	Housing : DIN Rail (Plastic)	Sensor Current : 100 mA (max)
Output current : 200 mA	For Timer Model :	Sensor : Any PNP Inductive Sensor
Protection : Short Ckt / Reverse Polarity	ON/OFF Time Delay : Adj. up to 15 Sec.	

LASER SENSOR	WINDOW SENSOR	SPECIAL POWER PACKS
LASER POINTER LINE GENERATOR	WFS 501 : NPN NO WFS 503 : PNP NO	MULTIPLE INPUTS and LOGIC OUTPUTS



Laser pointer - 20 mtr.	To Sense small object and production	Supply : 230V AC / 110V AC
Laser Line - 3 mtr.	counting. Product size ..upto 2mm x 6mm	Dimensions : 61 x 71 x 110 mm
Dimension : 18 D x 75 L mm	Slot Width : 50mm	Output : Relay changeover
Housing : Metal	Slot Depth : 45mm	Housing : DIN Rail mounting (Plastic)
Laser Pointer -Used for Targeting /	Dimension : 70 x 80 x 15mm	Sensor Supply : Built-in 12V DC
Locating small parts	Output : PNP or NPN	Sensor Current : 100mA
Laser Line - For Aligning small objects	Output Type : NO or NC	Logic available : Hopper Level Logic /
Laser Colour : Red	Housing : ABS plastic	AND /OR / MONO-STABLE / BISTABLE
Supply : 10 - 30V DC	Supply : 10 - 30V DC	Also 2-4 sensors with 2-4 separate outputs

INFRA RED sensor s

SLOT SENSOR	SLOT SENSOR	SLOT SENSOR	SLOT SENSOR
IFS 031 NPN - NO or NC Selectable IFS 033 PNP - NO or NC Selectable	IFS 051 NPN - NO / IFS 052 NPN - NC IFS 053 PNP - NO / IFS 054 PNP - NC	IFS 201 NPN - NO OR NC Selectable IFS 203 PNP - NO OR NC Selectable	IFS 501 NPN - NO OR NC Selectable IFS 503 PNP - NO OR NC Selectable
			
Slot Width / Depth : 3mm / 45 mm Dimension : 70 x 50 x 15 mm Output : PNP or NPN Output type : NO or NC Selectable Housing : ABS plastic With Sensitivity Adjustment Supply : 10 - 30 VDC Output current : 200 mA Protection : Short Circuit / Reverse Polarity	Slot Width / Depth : 5mm / 10 mm Dimension : 60 x 20 x 15mm Output : PNP or NPN Output type : NO or NC Housing : ABS plastic Supply : 10 -30 VDC Output current : 200 mA Protection : Short Circuit Protection Protection : Reverse Polarity Protection	Slot Width / Depth : 20mm / 45 mm Dimension : 70 x 50 x 15mm Output : PNP / NPN Output type : NO / NC Selectable Housing : ABS plastic With Sensitivity Adjustment Supply : 10 - 30 VDC Output current : 200 mA Protection : Short Circuit / Reverse Polarity	Slot Width / Depth : 50mm / 45 mm Dimension : 70 x 80 x 15mm Output : PNP / NPN Output type : NO / NC Selectable Housing : ABS plastic With Sensitivity Adjustment Supply : 10 - 30 VDC Output current : 200 mA Protection : Short Circuit / Reverse Polarity
SLOT SENSOR	THROUGH BEAM SENSOR	THROUGH BEAM SENSOR	THROUGH BEAM SENSOR
IFS 1001/2 NPN - NO or NC Selectable IFS 1003/4 PNP - NO or NC Selectable	IRB 121/122 : NPN - NO or NC IRB 123/124 : PNP - NO or NC	IRB 031/101/201 : NPN NO/NC Select IRB 033/103/203 : PNP NO/NC Select	EXB 06 / 08 / 12 EXTENDED HEAD NPN / PNP - NO / NC
			
Slot Width / Depth : 100mm / 45 mm Dimension : 70 x 130 x 15 mm Output : PNP / NPN : NO or NC Selectable Housing : ABS plastic With Sensitivity Adjustment Supply : 10 - 30 VDC Output current : 200 mA Protection : Short Circuit Protection Protection : Reverse Polarity	Range : 3 meters Dimensions : 12 D x 80 L mm cylindrical Housing : Plated Brass Output : PNP or NPN Output type : NO or NC Supply : 10 - 30 VDC Output current : 200 mA Protection : Short Circuit Protection Protection : Reverse Polarity	Range : 3 mtr / 10 mtr. / 20 mtr. Dimensions : 18 D x 75 L mm cylindrical Housing : Plated Brass Output : PNP or NPN Output type : NO or NC Selectable Supply : 10 - 30 VDC Output current : 200 mA Protection : Short Circuit Protection Protection : Reverse Polarity	Range : 500 mm / 500 mm /1000 mm Amplifier Dimensions : 18 x 75 mm Output : PNP or NPN With Sensitivity Adjustment Supply : 10 - 30 VDC Protection : Short Circuit / Reverse Polarity Sensor Housing : Plated Brass Extended Sensor Dia : 06 / 08 / 12 mm Extended Sensor Length : 25 mm
THROUGH BEAM SENSOR	THROUGH BEAM SENSOR	THROUGH BEAM SENSOR	FLAME SENSOR
IBX 41 / 42 : NPN - NO / NC IBX 43 / 44 : PNP - NO / NC	IBX 11/101/201 : NPN - NO/NC Select IBX 13/103/203 : PNP - NO/NC Select	IBX 21 / 22 : NPN - NO / NC Selectable IBX 23 / 24 : PNP - NO / NC Selectable	FAS 183 / LBS 183
			
Range : 3 meters (max) Dimensions : 40 x 28 x 13 mm Output : PNP or NPN and NO or NC Housing : ABS Plastic With Sensitivity Adjustment Supply : 10 - 30V DC Output current : 200 mA Protection : Short Circuit Protection Protection : Reverse Polarity	Range : 3 mtr. / 10 mtr. / 20 mtr. Dimensions : 17 x 50 x 55 mm Housing : ABS Plastic Output : PNP / NPN NO or NC Selectable Supply : 10 - 30 VDC Output current : 200 mA Protection : Short Circuit Protection Protection : Reverse Polarity	Range : 3 mtr. / 10 mtr. / 20 mtr. Dimensions : 17 x 35 x 80 mm Housing : ABS Plastic Output : PNP or NPN NO or NC Selectable Supply : 10 - 30 VDC Output current : 200 mA Protection : Short Circuit Protection Protection : Reverse Polarity	Range : 2 meters (max) Dimensions : 18 D x 75 L mm Output : PNP - NO Housing : Metal Supply : 10 - 30 V DC For Yellow Flame Sensing LBS 183 : For LED blinking sensor

DIGITAL COUNTERS

PRODUCTION COUNTER	PRESET PRODUCTION COUNTER	PRESET LENGTH COUNTER
Model : EV 62 : 6 Digits Model : EV 82 : 8 Digits	Model : PC 62 : 6 Digits Model : PC 82 : 8 Digits	Model : LC 62 : 6 Digits Model : LC 82 : 8 Digits



Supply : 220 Volts AC	Supply : 220 Volts AC	Supply : 220 Volts AC
Display type : Seven Segments LED	Input from : PNP Sensor / Micro / Limit Sw.	Displays Length Directly in Meters / Feet
Input : PNP / NPN / Micro / Limit Switch	Sensor Supply : 12 V DC from unit	Input from : PNP Sensor / Micro / Limit Sw.
Input speed selection : User Selectable	Memory Backup : through EPROM	Programmable Multiplying Scale Factor
Counting : Up counting	Reset : Front panel Sw / External Terminal	Sensor Supply : 12 V DC from unit
Sensor Supply : 12 V DC from unit	Setting Thru : Front Switches	Reset : Front panel Sw / External Terminal
Memory Backup : through EPROM	Output : Potential free Relay Contacts	Output : Potential free Relay Contacts
Reset : Front panel Sw / External terminals	Modes : Manual Reset or Auto Reset	Modes : Manual Reset or Auto Reset
Dimensions : 96 x 48 x 110 mm	Dimensions : 96 x 48 x 110 mm	Dimensions : 96 x 48 x 110 mm

LINE SPEED INDICATOR	MINIATURE COUNTER	MINIATURE RPM INDICATOR
Model : LS 42	Model : ME 62 D : DC Supply Model : ME 62 A : AC Supply	Model : RCM 42 D : DC Supply Model : RCM 42 A : AC Supply



Displays Linear Speed in Meters / Minute	24 VDC and 220 VAC supply	24 VDC and 220 VAC supply
Supply : 220 Volts AC	No of digits / Height : 6 Digits / 13 mm	No of digits : 4 Digits
No of digits : 4 Digits	Display type : Seven Segments LED	Type : Seven Segments LED Display
Type : Seven Segments LED Display	Input : PNP Sensor / Micro / Limit switch	Display height : 13 mm
Input from : PNP Sensor	Input speed selection : User Selectable	Input : PNP Sensor
Programmable Multiplying Scale Factor	Sensor Supply : 12 V DC from unit	Input speed selection : User Selectable
Sensor Supply : 12 V DC from unit	Memory Backup : through EPROM	Sensor Supply : 12 V DC from unit
Setting Thru : Front Switches	Reset : Front panel Sw / Ext Terminals	Dimensions : 63 x 38 x 82 mm
Dimensions : 96 x 48 x 110 mm	Dimensions : 63 x 38 x 82 mm	Cut Out Size : 53.5 x 30 mm

THUMB WHEEL PRESET	THUMB WHEEL PRESET	COIL WINDING COUNTER
Model : TC 42	Model : TC 62	Model : EW 42



Supply : 220 Volts AC	Supply : 220 Volts AC	Supply : 230V AC
Input from : PNP / NPN Sensor	Input from : PNP Sensor	Display : 1/2 inch red LED Display
Sensor Supply : 12 V DC from unit	Sensor Supply : 12 V DC from unit	Input : PNP / NPN sensor
Memory Backup : through EPROM	Memory Backup : through EPROM	Output : Potential free relay contact
Reset : From Front panel switch	Reset : Front panel Sw / Ext Terminals	Counts in Upward direction, when motor rotating Upward direction. Count in downward direction, when motor rotating downward direction.
Setting Through : Thumb Wheel Switches	Setting Thru : Thumb Wheel Switches	Dimensions : 96 x 48 x 110 mm
Output : Potential free Relay Contacts	Output : Potential free Relay Contacts	
Modes : Manual Reset or Auto Reset	Modes : Manual Reset or Auto Reset	
Dimensions : 72 x 72 x 110 mm	Dimensions : 96 x 96 x 110 mm	

DIGITAL COUNTERS & TIMERS

RPM INDICATOR : 4 DIGITS	RPM INDICATOR : A or D	SPEED SWITCH	ZERO SPEED SWITCH
Model : RC 42	Model : RC 42 D : Digital Model : RC 42 A : Analog	Model : SS 42	Model : ZSC 201



Supply : 220 Volts AC	Supply : 12 Volts DC	Supply : 230V AC	Supply : 230V AC
Display type : Seven Segments LED	Display type : Seven Segments LED	Display type : Seven Segments LED	Display type : Seven Segments LED
Input from : PNP / NPN Sensor	Display height : 19 mm	Input from : PNP / NPN Sensor	Display height : 19 mm
Max Count : Up to 9999	Input from : PNP / NPN Sensor	Displays output directly in RPM	Input : PNP / NPN Sensor
Division factor (Input) : 1 - 99 User settable	Output : Analog : 0-5 or 0-10 VDC	Set Point : 2 Nos.	Output : Potential free Relay contacts
Sensor Supply : 12 V DC from unit	Digital : TTL Retransmission output	One for upper and another for lower limit	Lower / Upper limit settable
Dimensions : 96 x 48 x 110 mm	Sensor Supply : 12 V DC from unit	Relay ON when RPM is in between limits	Setting through : Front Panel Switches
Cut Out : 92 x 46.5 mm	Full Scale : Settable for Analog output	and OFF when RPM crosses set limits	Displays output directly in RPM
	Dimensions : 96 x 48 x 110 mm	Dimensions : 96 x 48 x 110 mm	Dimensions : 96 x 48 x 110 mm

DUAL DISPLAY COUNTERS	PRESET + TOTALISER / BATCH	FLOW RATE INDICATOR	COMMUNICATION COUNTER
Model : EV RC 64 : Production + RPM Model : LC LS 64 : Length+Line Speed	Model : PT 262 : Preset + Totaliser Model : PB 262 : Preset + Batch	Model : FIT 262 - P / 1R / C	Model : EV 62 C Model : EV 82 C



Supply : 230V AC	Supply : 230V AC	Supply : 220 Volts AC	Supply : 220 Volts AC
EV RC 64 : 6 Digits for Production counter & 4 digit for RPM Indicator	PT 262 : 6 Digits for preset counter & 6 Digits for Totaliser	No of Digits : 4 Digits for Flow Rate 6 Digits for Flow Totaliser	Input : PNP / NPN / Micro / Limit Switch
LC LS 64 : 6 Digits for Length counter & 4 digit for Line speed Indicator	PB 262 : 6 Digits for Preset counter & 4 Digits for Batch count	Display type : Seven Segments LED	Input speed selection : User Selectable
Input from : PNP / NPN Sensor	Input from : PNP / NPN Sensor	Input : Pulses from Turbine Flow Sensor	Counting : Up counting
Sensor Supply : 12 V DC from unit	Output : Potential free relay contact	Scale Setting : User Settable	Communication : RS 232 / RS 485
Reset : Front panel switch / Ext. Terminals	Sensor Supply : 12 V DC from unit	Flow Rate : 0.001 to 9999 Units / Min	Sensor Supply : 12 V DC from unit
Dimensions : 96 x 96 x 110 mm	Dimensions : 96 x 96 x 110 mm	Flow Totaliser : 0.001 to 999999 Units	Memory Backup : through EPROM
		Memory Back up : through EPROM	Reset : Front panel Sw / Ext. terminals
			Dimensions : 96 x 48 x 110 mm

PROGRAMMABLE TIMER	SEQUENTIAL TIMER	TIME TOTALISER / HOUR METER	THUMBWHEEL DOWN TIMER
Model : DT 723	Model : ST 601	Model : HM 62	Model : TT 42



Supply : 220 Volts AC	Supply : 220 Volts AC	Supply : 220 Volts AC	Supply : 220 Volts AC
Display type : Seven Segments LED	Auto Reset Manual Reset Selection	No of digits : 6	Display type : Seven Segments LED
Reset : front panel + terminal strip	Minutes & Seconds Separately selectable	Display type : Seven Segments LED	Reset : front panel + terminal strip
4 Modes : ON Delay, OFF Delay, Cyclic ON First, Cyclic OFF first	Output : Up to 6 relays (selectable)	Timing pulse : Internally generated	Time Setting : Through Thumb wheel Sw.
Timing : From 9.99 mSec to 99.59 Hours	Time settable : Upto 99 minutes or second	Reset only from Terminal strip on back	Hours or Minutes or Sec or combinations available while ordering
Modes and timing are settable by user	Timing : T1 (ON delay) & T2 (OFF delay)	Displays reading in Hours, Minutes	Output : Relay Changeover Contacts
Output : 2 changeover contacts	Independently adjustable for each relay	Setting - User selectable	Dimensions : 72 x 72 x 110 mm
Dimensions : 72 x 72 x 110 mm	Input through : Switch (start pulse - PNP)	Dimensions : 96 x 48 x 110 mm	
	Dimensions : 100 x 70 x 114 mm (DIN)	Cut Out Size : 92 x 46.5 mm	

UNIVERSAL INDICATORS BIG DISPLAYS

UNIVERSAL INDICATORS

UNIVERSAL INDICATOR	UNIVERSAL IND+CONTROLLER	UNIVERSAL INDICATOR
Model : MI 14 : Indicator	Model : MI 14 -1R : 1 Relay O/P Model : MI 14 -2R : 2 Relay O/P	Model : MI 15 : Indicator / Display Model : MI 15 - 1R/2R : Relay O/P



Supply : 220 Volts AC No of digits : 4 Digits Display type : Seven Segments LED Display height : 19 mm Selectable Input : 0-10 VDC or 4-20 mA Max Count : 9999 user selectable Full Scale Setting : User Selectable Dimensions : 96 x 48 x 110 mm	Supply : 220 Volts AC No of digits : 4 Digits With RELAY OUTPUT : NC-C-NO Display type : Seven Segments LED Display height : 19 mm Selectable Input : 0-10 VDC or 4-20 mA Max Count : 9999 user selectable Full Scale Setting : User Selectable Dimensions : 96 x 48 x 110 mm	Supply : 220 Volts AC No of digits : 5 Digits Display type : Seven Segments LED Display height : 19 mm Selectable Input : 0-10 VDC or 4-20 mA Max Count : 99999 user selectable Full Scale Setting : User Selectable 1R2R Model - With Relay O/P(NC-C-NO) Dimensions : 96 x 48 x 110 mm
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UNIVERSAL INDICATOR	UNIVERSAL INDICATOR	UNIVERSAL IND+CONTROLLER
Model : MI 14 -2R-H-RT With Retransmission O/P 4 - 20mA	Model : MI 442 : Indicator	Model : MI 442 - 1R /2R: Relay O/P Model : MI 442 - 2R-H-RT



Supply : 220 Volts AC No of digits : 4 Digits Display type : Seven Segments LED Display height : 19 mm Each Selectable for : 0-10VDC or 4-20mA Max Count : 9999 user selectable Scale Setting : User Settable with Retransmission O/P 4 - 20mA Dimensions : 96 x 48 x 110 mm	Supply : 220 Volts AC No of digits / Height : 4 Digits / 4 Inch Display type : Seven Segments LED Selectable Input : 0 - 10V DC or 4 - 20mA Max Count : Up to 9999 user Selectable Scale Setting : User Selectable Sensor supply : 24 Volts DC Dimensions : 410 x 170 x 65 mm	Supply : 220 Volts AC No of digits / Height : 4 Digits / 4 Inches Output : Relay Output (NC-C-NO) Selectable Input : 0 - 10V DC or 4 - 20mA Max Count : Up to 9999 User Selectable Scale Setting : User Selectable Sensor Supply : 24 Volts DC With Retransmission O/p 4 - 20mA Dimensions : 410 x 170 x 65 mm
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TEMPERATURE CONTROLLER	TEMPERATURE INDICATOR	AMBIENT TEMPERATURE INDICATOR
Model : TI 32 : Indicator Model : TC 32 : Relay o/p	Model : TI 442 : Indicator Model : TC 442 : Relay o/p	Model : ATI 442 Ambient Temp Indicator



Supply : 220 Volts AC Display : 4 Digits - 7 Segments Output : Relay (NC - C - NO) Sensor Input : J / K / R or PT 100 sensor Accuracy : 0.25% FS \pm 1 digit , Resolution : 1°C Temperature Range : J : 0 - 750°C, K : (-99) - 1300°C, PT 100 : (-50) - 450°C Dimensions : 96 x 96 x 110 mm	Supply : 220 Volts AC No of digits : 3 Digits Display height : 4 inch Input : from PT 100 / Thermocouple Accuracy : 0.25% FS \pm 1 digit , Resolution : 1°C Temperature Range : J - 0 to 400 °C, K - 0 to 1200 °C, PT 100 - 0 to 400 °C Dimensions : 410 x 170 x 65 mm	Supply : 220 Volts AC No of digits : 2- 3 Digits with C Display type : Seven Segments LED Display height : 4 inch Sensor : Built - in Accuracy : 0.25% FS \pm 1 digit , Resolution : 1°C Dimensions : 410 x 170 x 65 mm
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BIG DISPLAYS

4 Inch / 4 Digits COUNTER	4 Inch / 4 Digits COUNTER	DUEL DISPLAY COUNTER	6 Inch / 4 or 6 Digits DISPLAY
Model : EV 442 : Event Counter Model : RC 442 : RPM Indicator	Model : PC 442 : Preset Counter Model : LS 442 : Line Speed Indi	Model : DD 442 : 4 Digits Model : DD 462 : 6 Digits	Event / RPM / Preset / Line Speed / Universal Indicator / Timer / etc;



Supply : 220 Volts AC No of digits / Height : 4 Digits / 4 Inches Display type : Seven Segments LED Input : PNP / NPN / Micro / Limit Switch Input speed selection : User Selectable Sensor Supply : 12 V DC from unit Memory Backup : through EPROM Reset : External terminals Dimension : 410 x 170 x 65 mm	Supply : 220 Volts AC No of Digits / Height : 4 Digits / 4 Inches Display type : Seven Segments LED Input : PNP / NPN / Micro / Limit Switch Input speed selection : User Selectable Output : Relay Contacts (for PC 442) Sensor Supply : 12 V DC from unit Memory Backup : through EPROM Dimension : 410 x 170 x 65 mm	Supply : 220 Volts AC Display height : 4 Inch Input : PNP / NPN / Micro / Limit Switch Sensor Supply : 12 V DC from unit Offer counter with combinations -Target & Actual counter, Hour meter & Event counter, Event & Preset counter, RPM and other counter etc. Dimension : 440 x 325 x 65 mm	Supply : 220 Volts AC No of Digits : 4 or 6 Digits Display type : 6 Inch LED Display Input : PNP / NPN Sensor Input speed selection : User Selectable Output : Potential Free Relay Contacts Sensor Supply : 12 V DC from unit Dimensions : 685 x 250 x 70 mm - 4 Digits Dimensions : 950 x 250 x 70 mm - 6 Digits
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4 Inch / 6 Digits COUNTER	4 Inch / 6 Digits COUNTER	4 Inch PRESET DOWN TIMER	MODBUS DISPLAY
Model : EV 462 : Event Counter	Model : PC 462 : Preset Counter Model : LC 462 : Length Counter	Model : PDT 442	Model : MD 442 : 4 Digits / 4Inch



Supply : 220 Volts AC No of digits / Height : 6 Digits / 4 Inches Max Count : Up to 999999 Input : PNP / NPN / Micro / Limit Switch Input speed selection : User Selectable Sensor Supply : 12 V DC from unit Memory Backup : through EPROM Setting : Through Switches Dimension : 590 x 170 x 65 mm	Supply : 220 Volts AC No of digits / Height : 6 Digits / 4 Inches Max Count : Up to 999999 Input : PNP / NPN / Micro / Limit Switch Sensor Supply : 12 V DC from unit Output : Potential free Relay Contacts Modes : Manual Reset or Auto Reset Setting : Through Key pendent Dimension : 590 x 170 x 65 mm	Supply : 220 Volts AC Display type : Seven Segments LED Display height : 4 Inch Input : PNP / NPN Sensor Sensor Supply : 12 V DC from unit Time Model : Selectable (Hr.Min, Min.Sec, Sec.mSec) Relay ON or OFF during time : Selectable Dimension : 410 x 170 x 65 mm	Supply : 230V AC No. of Digits / Height : 4 Nos / 4 Inches Input : RS 485 MODBUS RTU Input from PLC, Computer or any device with modbus output input data : Integer or Float with or without ID Setting : Selectable upto 99 Baud rate : 9600 Dimensions : 410 x 170 x 65mm
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2 Inch / 4 Digits COUNTER	2 Inch / 4 Digits COUNTER	1 Inch / 6 Digits COUNTER	1 Inch / 6 Digits COUNTER
Model : EV 242 : 4 Digits Event Model : RC 242 : 4 Digits RPM	Model : PC 242 : 4 Digits Preset Model : LS 242 : Linear Speed	Model : EV 162 : 6 Digits Event Model : RC 142 : 4 Digits RPM	Model : PC 162 : Preset Counter Model : LC 162 : Length Counter



Supply : 220 Volts AC No of digits : 4 , Max Count : Up to 9999 Display height : 2 Inch Input : PNP / NPN / Micro / Limit Switch Input speed selection : User Selectable Sensor Supply : 12 V DC from unit Memory Backup : through EPROM Dimension : 225 x 112 x 62 mm	Supply : 220 Volts AC No of digits : 4, Max Count : Up to 9999 Display height : 2 Inch Input : PNP / NPN / Micro / Limit Switch Input speed selection : User Selectable Sensor Supply : 12 V DC from unit Memory Backup : through EPROM Output : Relay Contacts (PC 242) Modes : Manual Reset or Auto Reset	Supply : 220 Volts AC No of digits / Height : 6 Digits / 1 Inch Max Count : Up to 999999 Max Count (RPM) : Up to 9999 Input : PNP / NPN / Micro / Limit Switch Input speed selection : User Selectable Sensor Supply : 12 V DC from unit Memory Backup : through EPROM Dimension : 192 x 90 x 96 mm	Supply : 220 Volts AC No of digits : 6, Max Count : Up to 999999 Display height : 1 Inch Input : PNP / NPN / Micro / Limit Switch Scale Factor : User Selectable (LC 162) Sensor Supply : 12 V DC from unit Memory Backup : through EPROM Output : Potential free Relay Contacts Dimension : 192 x 90 x 96 mm
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SAFETY LIGHT CURTAINS FOR POWER PRESSES

Features

- Offers Safety Standard Type 4 when used with Controller.
- Easy to install & can be mounted in any position. Vertical / Horizontal.
- Non-Critical alignment between Emitter & Receiver.
- Blanking / By-Passing individual channel is provided through software.
- System operation is unaffected by mains power fluctuations.
- Machine OFF if screen is too dirty or oily.
- Barrier operates on cyclic scanning photo-electric infra-red techniques.
- Various barrier heights are available for covering 90 mm to 1890 mm .
- Higher covering heights available upon request.
- Use of solid state components & special construction technique ensures that barrier is not affected by normal vibrations & shocks.
- Sensor connections are provided through plug in connectors.
- Self Checking Circuitry with two outputs continuously monitors failure of any of the beam in the system and stop the machine if failure is detected.
- LED Indications are provided for status indication of each channel.
- LED indications are also provided for each output.
- Choice for suitable Control Unit available as per different working conditions.
- Flexible fixing arrangements to suit individual requirement.
- Increases productivity while maintaining required safety.

Specifications

Power Supply	: 12 - 24 Volts DC
Supply Protection	: Reverse Polarity Protected
Output	: Duel 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
Restart	: Automatic
No of beams	: 6, 8, 10, 16, 24, 32 nos.
Beam By Pass	: Provided in hand/body protection models
Protected Heights	: 90 - 1890 mm
Pitch offered	: 11 - 20 - 30 - 40 - 50 - 90 mm
Adjustable Range	: Up to 3 meters (Higher range up to 20 meters available)
Electrical Connections	: Plug in Connector for Emitter & Receiver
Standard Cable length	: 5 meters for emitter, 3 meters for receiver
Operating Temperature	: Up to 55 Degrees centigrade
Fastening Modes	: Slide Slot on the back with adjustable height
Cross Section	: 36 x 42 mm
Applicable to	: Directly work with PLCs / Controllers
Suitable for	: Machines with quick emergency stop
Protections	: Output short circuit protected.
Vibration Resistance	: Amplitude : 0.75 mm (p) Freq : 10 - 55 Hzs Rate : 1 Octave / min
Operating ambient Light	: 500 Lux (max.) when source is places opposite to receiver : > 3000 lux when source placed at an angle of 20 degrees

Accessories



Control Unit : Wall Mount
(Code : 2CW)



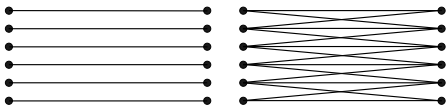
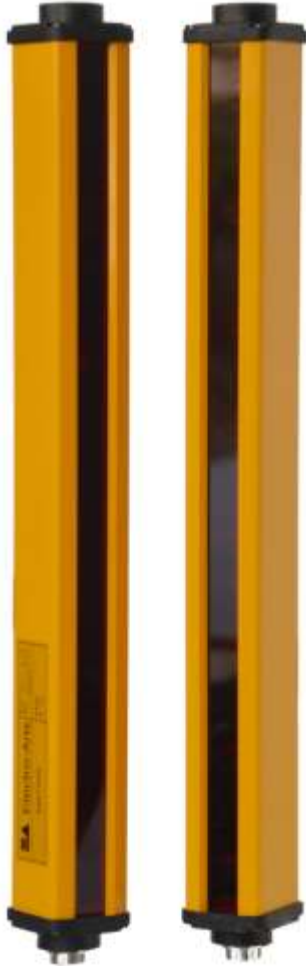
Control Unit : Panel Mount
(Code : 2CP)



Control Unit : DIN Mount
(Code : 2CD)



All the models are also available with CE mark. Replace 2OP with CE for models with CE certification



Type : Parallel Beam
No of Beams : 6 nos
Active Beams: 6 nos
Min.Range : 300 mm

Type : Cross Beam
No of Beams : 6 nos
Active Beams:16 nos
Min.Range : 500 mm

HAND Protection : Models with 2 Outputs

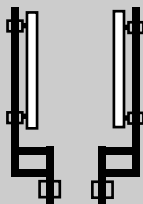
Supply : 12 - 24 Volts DC
Covered Range : 300 - 3000 mm, Duel PNP Output
LED Indication and By-Pass facility for each beam

Protected Height mm	Parallel Beam		Cross Beam		Pitch mm	Overall Height mm
	Models	Beam	Models	Beam		
150	LC 0630 - 2OP	6	LX 0630 - 2OP	16	30	245
180	LC 1020 - 2OP	10	LX 1020 - 2OP	28	20	305
200	LC 0640 - 2OP	6	LX 0640 - 2OP	16	40	295
210	LC 0830 - 2OP	8	LX 0830 - 2OP	22	30	295
250	LC 0650 - 2OP	6	LX 0650 - 2OP	16	50	345
270	LC 1030 - 2OP	10	LX 1030 - 2OP	28	30	365
280	LC 0840 - 2OP	8	LX 0840 - 2OP	22	40	370
300	LC 1620 - 2OP	16	LX 1620 - 2OP	46	20	435
350	LC 0850 - 2OP	8	LX 0850 - 2OP	22	50	440
360	LC 1040 - 2OP	10	LX 1040 - 2OP	28	40	455
380	LC 2020 - 2OP	20	LX 2020 - 2OP	58	20	645
450	LC 1050 - 2OP	10	LX 1050 - 2OP	28	50	545
450	LC 1630 - 2OP	16	LX 1630 - 2OP	46	30	535
500	LC 2620 - 2OP	26	LX 2620 - 2OP	76	20	610
600	LC 1640 - 2OP	16	LX 1640 - 2OP	46	40	685
620	LC 3220 - 2OP	32	LX 3220 - 2OP	94	20	715
690	LC 2430 - 2OP	24	LX 2430 - 2OP	70	30	770
750	LC 1650 - 2OP	16	LX 1650 - 2OP	46	50	840
780	LC 4020 - 2OP	40	LX 4020 - 2OP	118	30	885
920	LC 2440 - 2OP	24	LX 2440 - 2OP	70	40	1005
930	LC 3230 - 2OP	32	LX 3230 - 2OP	94	30	1010
1150	LC 2450 - 2OP	24	LX 2450 - 2OP	70	50	1250
1170	LC 4030 - 2OP	40	LX 4030 - 2OP	118	30	1250
1240	LC 3240 - 2OP	32	LX 3240 - 2OP	94	40	1325
1410	LC 4830 - 2OP	48	LX 4830 - 2OP	142	30	1490
1550	LC 3250 - 2OP	32	LX 3250 - 2OP	94	50	1640
1645	LC 4040 - 2OP	40	LX 4040 - 2OP	118	40	1650
1650	LC 5630 - 2OP	56	LX 5630 - 2OP	166	30	1725
1890	LC 6430 - 2OP	64	LX 6430 - 2OP	190	30	1965

FINGER Protection : Models with 2 Outputs

Supply : 12 - 24 Volts DC
Covered Range : 150 - 3000 mm, Duel PNP Output
LED Indication for final output

Protected Height mm	Cross Beam		Pitch mm	Overall Height mm
	Models	Beam		
100	FX 1011 - 2OP	28	11	200
165	FX 1611 - 2OP	46	11	240
250	FX 2411 - 2OP	70	11	340
355	FX 3211 - 2OP	94	11	445
530	FX 4811 - 2OP	142	11	620
705	FX 6411 - 2OP	190	11	800



Mounting Stand
(Code : MS)



Vibration Dampers
(Code : VD)

SAFETY LIGHT CURTAINS

BODY PROTECTION : Models with 2 Outputs

Supply : 12 - 24 volts DC
Covered Range : 500 - 3000 mm, Duel PNP Output
LED Indication and Beam By-Pass for each channel

Protected Height mm	Parallel Beam		Cross Beam		Pitch mm	Overall Height mm
	Models	Beam	Models	Beam		
270	LC 0490 - 2OP	4	LX 0490 - 2OP	14	90	360
630	LC 0890 - 2OP	8	LX 0890 - 2OP	22	90	720
990	LC 1290 - 2OP	12	LX 1290 - 2OP	34	90	1080
1350	LC 1690 - 2OP	16	LX 1690 - 2OP	46	90	1440
1710	LC 2090 - 2OP	20	LX 2090 - 2OP	58	90	1800

DIFFUSED AREA SENSOR

Supply : 12 - 24 Volts DC
Covered Range : UPTO 1000 mm, Duel PNP Output
LED Indication for final output

Protected Height mm	Diffuse Scan Models	Overall Height
350	DA 0850	435
750	DA 1650	835
1150	DA 2450	1245
1550	DA 3250	1645
1950	DA 4050	2055



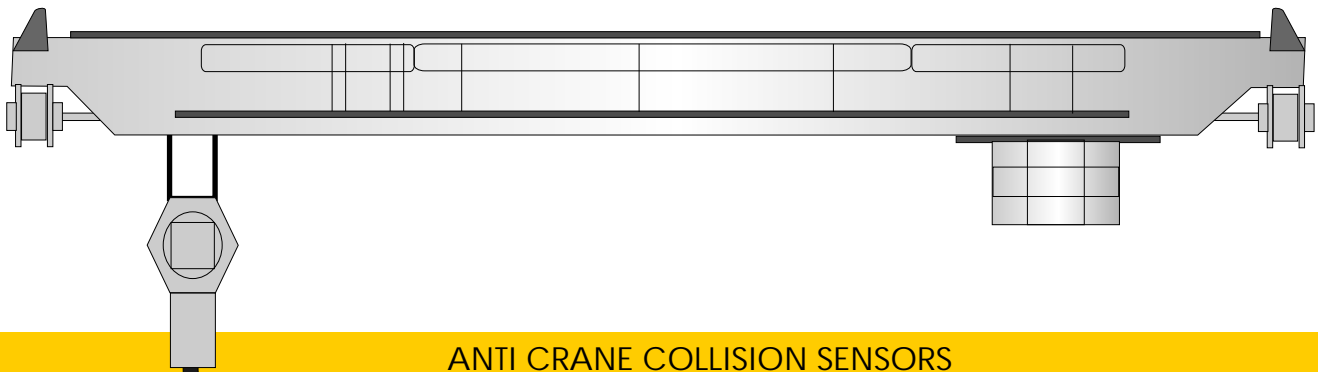
OTHER APPLICATIONS

HEIGHT SENSOR	SAFETY GUARD : PAPER CUTTING M/C	BIN SENSOR
Model : HS xxxx	Model : PCM 03 : For 3 beams Model : PCM 04 : For 4 beams	



Sensor Supply : 24V DC	Power Supply : 220 VAC or 110 VAC	Power Supply : 12 - 24 VDC
No of Beams : As per requirement	Output : Relay Contacts @ 2 A (max)	Output : PNP - NO
Pitch : 20, 25, 30, 40, 50, 90. mm	Controller : Metal Enclosure	Range : 300 mm with Reflector
Output : 5 Bit / Individual / Analogue	Sensors : 18D x 75L (mm)	Cross section : 36 x 42 mm (Aluminum)
Used for : Conveyer System / Vehicle	Non critical alignment	Indications : At the Top of Sensor
Height measurement / Object height	Range : 3 Meters (max)	Protection : Reverse Polarity/Short Circuit
measurement for automatic storage	LED indication for each channel	Application : Used in Pokayoka system
system / Painting Booths to control	By Pass switches for each beam	which allows Operator to pick up the
spray guns as per height of object	Total Guard By-Pass for unit available	material from next correct bin.

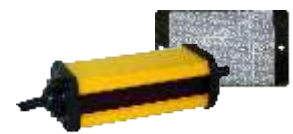
ANTI-CRANE COLLISION SENSOR



Model : ACC 03
Model : ACC 10 / 15

Model : ACC 102
(2 Set Points)

Model : ACU 03



Specifications

Specifications	Model : ACC 03 : 03 Meters Model : ACC 10 / 15 : 10 / 15 Meters	Model : ACC 102 : 10 Meters : with 2 Set Points	Model : ACU 03 : 03 Meters
Model & Range :	Model : ACC 03 : 03 Meters Model : ACC 10 / 15 : 10 / 15 Meters	Model : ACC 102 : 10 Meters : with 2 Set Points	Model : ACU 03 : 03 Meters
Supply Voltage :	110 V AC or 220 V AC (User Selectable)	110 V AC or 220 V AC (User Selectable)	24 - 220 Volts AC or DC
Supply type :	Fixed supply voltage	Fixed supply voltage	Universal Supply
Laser Alignment tool :	For Alignment of sensor and reflector	For Alignment of sensor and reflector	Not Available
No of set points :	Single Set Point	Two Set Points independently adjustable	Single Set Point
No of output / Relay :	Single Output / Single Relay	Two Outputs / Two Relays	Single Output / Single Relay
Output :	Potential Free Relay Contacts	Potential Free Relay Contacts	Potential Free Relay Contacts
Contacts Rating :	3 Amps (max.) at 220 V AC	3 Amps (max.) at 220 V AC	3 Amps (max.) at 220 V AC
Range Adjustment :	Provided (up to 50 % approx.)	Provided (up to 50 % approx.)	Provided (up to 50 % approx.)
Adjustment through :	POT	POT	POT
Reflector size :	130 x 75 mm	130 x 75 mm	130 x 75 mm
Dimensions :	180 mm X 145 mm X 55 mm	180 mm X 145 mm X 55 mm	36 x 42 x 120 mm
Housing :	Metal Housing	Metal Housing	Metal Housing

This is used for Two overhead cranes on the same rail. This model is suitable for 3 meters or 10 meters range. Output is NO contact of relay which can be interlocked with coil of contactor in respective direction. Alignment of Sensor and Reflector is very easy.

This is used for Two overhead cranes on the same rail. This model is suitable for 10 meters. There are two outputs. One output can be used for audio alarm for operator and another output is interlocked with coil of contactor in respective direction.

This works on universal voltage from 24 Volts to 220 volts, AC or DC. This is suitable for 3 meters range. Output is NO contact of relay which can be interlocked with coil of contactor in respective direction. Alignment of Sensor and Reflector is very easy.

Electronic Switches offers Anti Crane Collision Switch for two over head cranes on the same rail. These units are installed on two cranes on the same rail approaching each other. 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 avoided. The minimum distance in between two cranes can be set and will always be maintained. The cranes will be able to move away from each other but not closer.

PROXIMITY SWITCHES

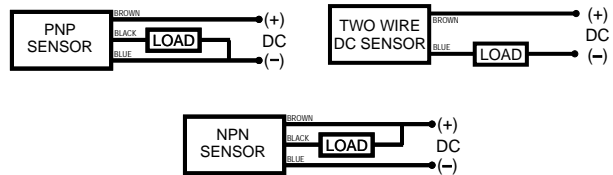
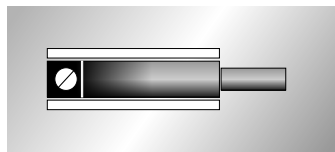


ANALOG PROXIMITY SWITCH

Electronic Switches (I) P. Ltd; offers Analog Sensors which are self-contained, general purpose, solid-state devices designed to sense the presence of ferrous and nonferrous metal objects without touching them. These special versions provide a 0...10V sourcing analog output proportional to the sensing distance. It is used in Light-duty packaging applications Automotive welding equipment, Food-processing plants, Textile and many other automation systems.

Supply	: 24 Volts DC
Output	: 0 - 10 Volts DC (Proportional)
Housing	: Plated Brass
Current	: 200 mA (max)
Operating Temp.	: Up to 55 degrees C
For M 18 Sensor	: Range : 2 - 7 mm (Ferrous)
For M 30 Sensor	: Range : 2 - 10 mm (Ferrous)
Dimensions	: 18 D / 30 D x 65 L mm
Cable	: 3 wire type, 2 Meters

REED SWITCH / CYLINDER POSITION SENSOR



MODEL	MR 01	MR 03 N	MR 03 P
Cable	2 Core Wire	3 Core Wire	3 Core Wire
Cable Length	2 Meters	2 Meters	2 Meters
Indication	LED	LED	LED
Max Switching Power	0.5 W	1 Watt	1 Watt
Operating Frequency	100 Hzs	100 Hzs	100 Hzs
Operating Voltage	10 -30 VDC	10 -30 VDC	10 -30 VDC
Output Logic	SPST - NO	NPN	PNP
Output Current	200 mA (max)	300 mA (max)	300 mA (max)
Voltage Drop	3.0 Volts (max)	NIL	NIL
Suitable For	Relay / PLC	Relay / PLC	Relay / PLC
Dimensions	4.8 x 6.4 x 38 mm	4.8 x 6.4 x 38 mm	4.8 x 6.4 x 38 mm

PROXIMITY SWITCHES

INDUCTIVE PROXIMITY SWITCHES : AC TYPE

NO	MODEL	O/P	TYPE	RANGE	OUTPUT	HOUSING
1	IP 12102 AF	NO	FLUSH	2	SOLID STATE	D:12mm L:90mm
2	IP 12202 AF	NC		mm		
3	IP 12104 AN	NO	NON	4		
4	IP 12204 AN	NC	FLUSH	mm		
5	IP 18105 AF	NO	FLUSH	5	SOLID STATE	D:18mm L:90mm
6	IP 18205 AF	NC		mm		
7	IP 18108 AN	NO	NON	7		
8	IP 18208 AN	NC	FLUSH	mm		
9	IP 30110 AF	NO	FLUSH	10	SOLID STATE	D:30mm L:65mm
10	IP 30210 AF	NC		mm		
11	IP 30115 AN	NO	NON	15		
12	IP 30215 AN	NC	FLUSH	mm		

INDUCTIVE PROXIMITY SWITCHES : 2 WIRE - DC

Supply Voltage : 24 Volts Dc

Output : NPN or PNP

Output Type : NO (Normally Open)

Diameter & Range : Dia : 12 mm ... Range : 02 mm ... Flush

: Dia : 12 mm ... Range : 04 mm ... Non Flush

: Dia : 18 mm ... Range : 04 mm ... Flush

: Dia : 18 mm ... Range : 08 mm ... Non Flush

: Dia : 30 mm ... Range : 10 mm ... Flush

: Dia : 30 mm ... Range : 15 mm ... Non Flush

Cable Length : 2 Meters

CAPACITIVE PROXIMITY SWITCHES : DC TYPE

NO	MODEL	O/P	O/P	TYPE	RANGE	HOUSING
1	CP 18106 DN	NPN	NO	NON FLUSH	6 mm	D:18mm L:65mm
2	CP 18206 DN	NPN	NC			
3	CP 18306 DN	PNP	NO			
4	CP 18406 DN	PNP	NC			
5	CP 30115 DN	NPN	NO	NON FLUSH	15 mm	D:30mm L:65mm
6	CP 30215 DN	NPN	NC			
7	CP 30315 DN	PNP	NO			
8	CP 30415 DN	PNP	NC			

INDUCTIVE PROXIMITY SWITCHES : DC TYPE

NO	MODEL	O/P	O/P	RANGE	TYPE	HOUSING
1	IP 06101 DF	NPN	NO	1 mm	FLUSH	D:06mm L:65mm
2	IP 06201 DF	NPN	NC			
3	IP 06301 DF	PNP	NO			
4	IP 06401 DF	PNP	NC			
5	IP 08101 DF	NPN	NO	1 mm	FLUSH	D:08mm L:65mm
6	IP 08201 DF	NPN	NC			
7	IP 08301 DF	PNP	NO			
8	IP 08401 DF	PNP	NC			
9	IP 12102 DF	NPN	NO	2 mm	FLUSH	D:12mm L:65mm
10	IP 12202 DF	NPN	NC			
11	IP 12302 DF	PNP	NO			
12	IP 12402 DF	PNP	NC			
13	IP 12104 DN	NPN	NO	3.5 mm	NON FLUSH	D:12mm L:65mm
14	IP 12204 DN	NPN	NC			
15	IP 12304 DN	PNP	NO			
16	IP 12404 DN	PNP	NC			
17	IP 18105 DF	NPN	NO	5 mm	FLUSH	D:18mm L:65mm
18	IP 18205 DF	NPN	NC			
19	IP 18305 DF	PNP	NO			
20	IP 18405 DF	PNP	NC			
21	IP 18108 DN	NPN	NO	7 mm	NON FLUSH	D:18mm L:65mm
22	IP 18208 DN	NPN	NC			
23	IP 18308 DN	PNP	NO			
24	IP 18408 DN	PNP	NC			
25	IP 30110 DF	NPN	NO	10 mm	FLUSH	D:30mm L:65mm
26	IP 30210 DF	NPN	NC			
27	IP 30310 DF	PNP	NO			
28	IP 30410 DF	PNP	NC			
29	IP 30115 DN	NPN	NO	15 mm	NON FLUSH	D:30mm L:65mm
30	IP 30215 DN	NPN	NC			
31	IP 30315 DN	PNP	NO			
32	IP 30415 DN	PNP	NC			
33	IP 36120 DN	NPN	NO	20 mm	NON FLUSH	D:36mm L:65mm
34	IP 36220 DN	NPN	NC			
35	IP 36320 DN	PNP	NO			
36	IP 36420 DN	PNP	NC			

COMMON SPECIFICATIONS :

Supply DC type : 10 to 30 V DC
 Supply AC type : 90 to 230 V AC
 Load Current : 200 mA
 Indication : LED
 Wire Length : 2 mtrs.

1. Models available with connector for sensor of diameter 12 mm & above.
2. For AC Switches, Short Circuit Protection not available.
3. Sensor with 6 mm diameter are available without threading.
4. Some models are available with lesser length (L=50 or L=35).

LEVEL SENSORS

CAPACITANCE LEVEL SENSOR	MAGNETIC FLOAT LEVEL SENSOR	FLOAT LEVEL SENSOR
Model : CLS 103 - Single level Model : CLS 203 - Two Level	Model : MFS 100/101 - Single Level Model : MFS 200/201 - Two Levels	
		
Supply Voltage : 10-24 Volts DC Output : PNP - NO Output Current : 100 mA (max) Level setting : Teach - for each level No. of Levels : Single or Two Probe Material : Stainless Steel Fixing Type : Flange Type, Dia105 mm Fixing holes : 3 fixing holes at 92mm Probe Dia /Length : 12mm / up to1000 Protection : Reverse Polarity /Short Circuit	Sensor Supply : 10 - 24 Volts DC Output : SHORT when level is sensed otherwise OPEN Output Current : 100 mA max No. of Levels : Single or Two Probe diameter : 10 mm Stem Mounting : Stainless Steel Float : PU Foam or SS Float Working Temp. : Up to 55 °C Cable Length : 2 Meters	Sensor Supply : Up to 220 Volts AC Output : NC - C - NO Output Current : 100 mA No. of Levels : Single or Two Protective Connection : Waterproof Working Pressure : Max 1 Bar Working Temp. : Up to 55 °C Cable Length : 2 Meters
MOBILE - SMS ALERTS	MOBILE OPERATED PUMP	WIRELESS ACCESS CONTROL
	Model : MOU 201 ... single output Model : MOU 205 ... five outputs	Model : ACK 01 ... With Key Pad Model : ACR 01 ... With RFID Tags
		
Power Supply : 220 Volts AC Alert Output : SMS to 4 mobile numbers Technique used : GSM Mobile network Inputs : Temp + 3 (NO) Contacts Setting available : Temp & SMS wording Function : Alert SMS are sent by unit to 4 mobile numbers as soon as Ambient Temperature reaches beyond set value OR any one of the other 3 contacts gets short.	Communication thru : GSM - SIM card Power Supply : 220 Volts AC Output : Potential free relay contacts Allowable Current : 2 Amp Outputs : Single or Multiple Relays No of registered persons : 1 + 4 (max) Manual By-pass : Provided inside unit Dimensions : 235 x 120 x 50 mm Housing : Metal Enclosure	Unit Supply : 12 VDC / 220 VAC Terminals for Battery Back up Provided Output : Relay Contacts Maximum Load : up to 100 Watts Access Through : Key Pad ... Password Number : Set/Change by User Access Through : RFID Tag ... Additional Tags can be added Later Suitable for : Doors
GUARD TOUR MONITOR	HUMAN MOTION SENSOR	REMOTE SWITCH
Model : GTR 016	Model : PIR 300	Model : RF 212 : 2 O/P
		
Supply : 9 Volts Rechargeable battery Sense Indication : Audio Beep + Visual Max no of records : up to 6000 records Read Range : 30-40 mm Communication : through USB Tour Station Card : RFID Tags (sealed) Station Card Dimensions : 20x65x6 mm Reader Dimensions : 120x90x40 mm Housing Material : ABS Plastics	Power Supply : 220 Volts AC Output : 220 Volts AC Maximum Load : up to 100 Watt Range : Adjustable up to 5-6 meters. Time Delay : Adjustable up to 05 min. Day & Night : Selectable Sensitivity Adj : By potentiometer Detection Angle : 110 degrees Housing : ABS Housing	Type : RF Switch Supply : 12 V DC Distance : 50 meters (in free air) Output : Relay Contacts No of outputs : Two Output contacts ratings : 2 Amps (max) Signal Indication : LED Blinks when any signal is received

ENERGY SAVING PRODUCTS

SMART LAMP

Model : SL 101 ... For Night



Type : Smart Lamp - Twilight Switch
 Power Supply : 220 V AC, through Wire
 Output Supply : 220 VAC, through Holder
 Output Capacity : Up to 100 Watts
 Suitable for : Bulbs / Tube Light / CFL
 Consumption : Less than 2 Watts
 Dimensions : Dia 76 x Length 100 mm
 Function : Light ON in the evening and OFF in the morning automatically

SMART LAMP

Model : SL 201 With Timer



Type : Smart Lamp - Twilight Timer
 Power Supply : 220 V AC, through Wire
 Output Supply : 220 VAC, through Holder
 Output Capacity : Up to 100 Watts
 Suitable for : Bulbs / Tube Light / CFL
 Consumption : Less than 2 Watts
 Dimensions : Dia 76 x Length 100 mm
 Function : Light ON in the evening and OFF after 4 hours automatically

TWILIGHT SENSOR

Model : TSM 101 ... Overnight
 Model : TSM 201 ... With Timer



Power Supply : 220 V AC, 50 Hzs,
 Output Supply : Through wire 220 V AC
 Output : Through Wire
 Max Load : Up to 100 watts
 Sensor : Built in sensor in the housing
 Timing Models : Fixed time approx 4 Hrs
 LED Indications : for Power and Output
 Housing : ABS plastic box.
 Dimensions : 140 x 40 x 30 mm approx.

TOILET LAMP

Model : TL 101



Type : Smart Lamp - Toilet Lamp
 Power Supply : 220 V AC, Through Wires
 Output : 220 VAC, Through Holder.
 Output Capacity : Up to 100 Watts
 Suitable for : Bulbs / Tube Light / CFL
 Consumption : Less than 2 Watts
 Door Sensors : Magnetic Door Switch
 Dimensions : Dia 76 x Length 100 mm
 Light ON as long as person is in Toilet

TWILIGHT SWITCH

Model : STM 105
 Model : STD 105



Power Supply : 220 V AC, 50 Hzs,
 Output : Through relay contacts
 Sensitivity Adj : Provided inside the unit.
 Sensor : Connection by terminal strip
 Manual By Pass : Switch Provided
 LED Indications : for Power and Output
 Housing : Powder coated metal box.
 Dimensions : 155 x 125 x 55 mm

TWILIGHT TIMER

Model : STM 205 for 05 A
 Model : STM 215 for 15 A



Power Supply : 220 V AC through Cable
 Output : 220 VAC @ 5A /15A, thru Socket
 Output : Through relay contacts
 Sensitivity Adj : Provided inside the unit.
 Sensor : Connections by Connector
 Timing : Adjustable from 30min to 10 Hrs
 Manual By-Pass : Switch Provided
 Indications : Provided for Power & Output
 Housing : 200 x 100 x 60 mm

TWILIGHT SWITCH : WEATHERPROOF

Model : STW 110



Power Supply : 220 V AC (terminal strip)
 Output Supply : 220 V AC @ 10 A (max)
 Output : Through relay contacts
 Sensitivity Adj : Provided inside the unit.
 Sensor : Connections by terminal strip
 Manual By-Pass : Switch Provided
 Indications : Provided for Power & Output
 Housing : Weatherproof FRP box.
 Dimensions : 250 x 145 x 110 mm

PIR AC CONTROLLER

Model : PIR 215 P (Plastic socket)
 Model : PIR 215 M (Metal socket)



Power Supply : 220 V AC thru Cable.
 Output : 220 V AC @ 15A,
 Output from : Metal or Plastic Socket
 Timer : Selectable up to 10 -15 minutes.
 Sensor type : Wall Mount
 Sensing Range : Up to 3 - 3.5 mtrs (max)
 Controller Mounting : Wall Mounting
 Dimensions : 200 x 100 x 60 mm (P)
 Dimensions : 155 x 150 x 70 mm (M)

POWER ON TIMER

Model : POT 205 ... 05A
 Model : POT 215 ... 15A



Power Supply : 220 V AC
 Output : 5A or 15A @ 220 V AC (Socket)
 Connection type : Plug - in type
 Timer : Adjustable Time up to 4 Hours.
 O/P OFF : Automatically OFF after preset time is over.
 Mounting : Wall Mounting
 Dimensions : 200 x 100 x 60 mm.
 Enclosure : Metal Enclosure

PUMP GUARD

Model : PG 1105 / 1205
 Model : PG 1115 / 1215



Power Supply : 220 VAC Through Cable
 Output : 220 VAC : Through Socket
 Suitable for : Single / Three Phase
 Indications : LEDs
 Auto / Manual : Switch Provided
 Type of wiring : Plug - in - type
 Type of Sensor : Float Sensor
 Dimensions : 200 x 100 x 60 mm
 Enclosure : Powder coated Metal

ROOM AC TIMER

Model : AC 115 M ... (Metal socket)
 Model : AC 115 P ... (Plastic socket)



Power : 220 V AC @ 15A, Through cable
 Output Supply : 220 VAC @ 15 A
 Output from : Metal or Plastic Socket
 Output : Through relay contacts
 ON Time : Adjustable up to one hour
 OFF Time : Adjustable up to one hour
 Timing Adj : Adjustable by POT by user
 Indications : Provided for Power & Output
 Housing : Power coated metal box.

WIRELESS SECURITY SYSTEM

Model : WSS 08



Power Supply : 220 VAC + Battery
 Zones : 08 Wireless + 1 Wired
 Output : Relay Contacts + Siren
 Wireless Sensors : Door / Panic
 Siren Time : Selectable by user
 Output : Facility for wireless Siren
 System Arm/Disarm : RF Remote or Wireless Key Pad or RFID Cards
 Interface : LCD Display

SIGNAL CONVERTERS

SIGNAL CONVERTER	SIGNAL CONVERTER	SIGNAL CONVERTER
0-10 VDC : 0-10 VDC	0-10 VDC : 4-20 mA	4-20 mA : 0-10 VDC



Two wire system	Two wire system	Two wire system
Input : 0-10 VDC	Input : 0-10 VDC	Input : 4-20 mA
Output : 0-10 VDC Isolated	Output : 4-20 mA Isolated	Output : 0-10 VDC Isolated
Supply : 24 VDC or 220 VAC	Max Load : 500 Ohms	Supply : 24 VDC or 220 VAC
Accuracy : (+/-) 0.1 % of FS	Supply : 24 VDC or 220 VAC	Accuracy : (+/-) 0.1 % of FS
Input and all outputs are isolated	Accuracy : (+/-) 0.1 % of FS	Input and all outputs are isolated
Setting : Zero & Span adjustable	Input and all the outputs are isolated	Setting : Zero & Span adjustable
Enclosure : DIN rail mounting Plastic	Setting : Zero & Span adjustable	Enclosure : DIN rail mounting Plastic
Dimensions : 61 x 71 x 110 mm	Transmitter Supply : 24 VDC Provided	Dimensions : 61 x 71 x 110 mm
	Dimensions : 61 x 71 x 110 mm (DIN)	

SIGNAL CONVERTER	SIGNAL CONVERTER	SIGNAL CONVERTER
4-20 mA : 4-20 mA	0-10 vdc : 0-10 vdc + 4-20 mA 0-10 vdc : 0-10 vdc + 0-10 vdc 0-10 vdc : 4-20 mA + 4-20 mA	4-20 mA : 0-10 vdc + 0-10 vdc 4-20 mA : 4-20 mA + 4-20 mA 4-20 mA : 0-10 vdc + 4-20 mA



Two wire system	Two wire system	Two wire system
Input : 4-20 mA	Input : 0-10 vdc	Input : 4-20 mA
Output : 4-20 mA Isolated	Outputs : 3 Different Combinations	Outputs : 3 Different Combinations
Max Load : 500 Ohms	Max Load : 500 Ohms	Supply : 24 VDC or 220 VAC
Supply : 24 VDC or 220 VAC	Supply : 24 VDC or 220 VAC	Accuracy : (+/-) 0.1 % of FS
Accuracy : (+/-) 0.1 % of FS	Accuracy : (+/-) 0.1 % of FS	Input and all outputs are isolated
Input and all outputs are isolated	Input and all outputs are isolated	Setting : Zero & Span adjustable
Setting : Zero & Span adjustable	Setting : Zero & Span adjustable	Enclosure : Plastic - DIN rail
Enclosure : DIN rail mounting Plastic	Enclosure : DIN rail mounting Plastic	Dimensions : 61 x 71 x 110 mm
Dimensions : 61 x 71 x 110 mm	Dimensions : 61 x 71 x 110 mm	

4-20 mA : DIGITAL / BINARY

Model : CVO 10 B



Supply : 24 VDC or 220 VAC
 Input : 4-20 mA or 0-10 Volts DC
 Output : Binary 10 Bits
 (For 4 mA : 000000000)
 (For 20 mA : 111111111)
 Binary voltage : 12 V DC / 24 VDC
 Enclosure : DIN rail mounting Plastic
 Dimensions : 100 x 70 x 110 mm



INFRA RED SENSORS

Electronic Switches (India) Pvt. Ltd..... Offers a complete range of Infrared Photo-Electric Switches employing three different scanning techniques.

Diffuse Scan



The monitored object is used here to divert the beam from the transmitter to the receiver. This type can be conveniently used as a proximity switch.

Through Scan



Here the transmitter & the receiver are housed separately & are positioned on either side of the monitored object(s)

Retroreflective Scan

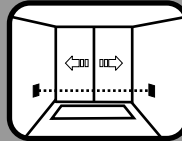


A reflector is used here to direct the beam from transmitter to receiver, both of which are housed together. This type is specially designed for applications where space is at a premium.

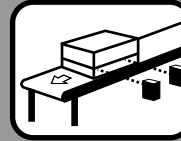
Common Specifications:

- ▶ Supply : 10-30 Volts DC
- ▶ 220 Volts AC models also available
- ▶ Output : NPN / PNP / NO / NC
- ▶ O/P Current : 200 mA (Max)
- ▶ Indication : For NPN O/P - Green LED
- ▶ Indication : For PNP O/P - Red LED
- ▶ No Load Current : 5-10 mA approx
- ▶ Drop across Switch : Below 1 volt
- ▶ Speed (max) : 100 per second
- ▶ Protection : Reverse Polarity
- ▶ Protection : Short Circuit Protection
- ▶ NO to NC Selectable : To change Output - interchange supply wires.
- ▶ Operating Temp. : upto 55°C.
- ▶ Connector models available

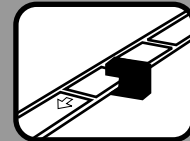
Applications



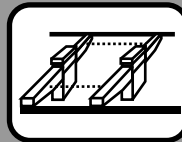
Door Opening / Closing



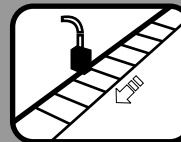
Positioning of objects on conveyer



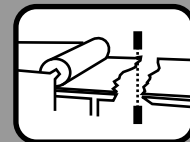
Label Sensing
On-Line Double Sheet detection



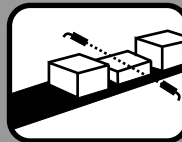
Anti-crane collision for over head cranes



Registration mark sensor for packaging machines



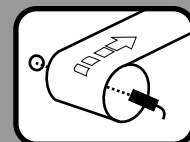
Paper / film break sensor
Transparent / opaque



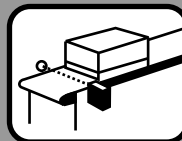
On-line Detection of sizes on conveyer systems



Hopper Level controller for free flowing material



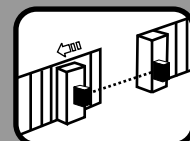
OD/ID Sensing at unwinder / rewinder



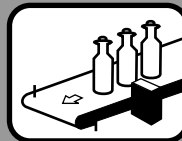
Empty running or jamming of material on conveyer



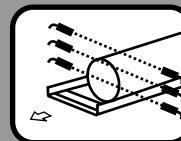
Cap / Label sensing on bottles during process



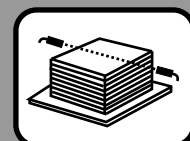
Automatic Gate opening / closing for vehicles



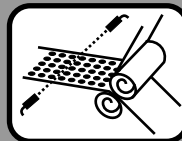
Transparent Glass bottles / Ampules / object counting



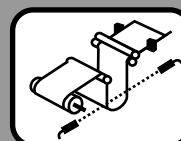
Pipe / wood object length cutting



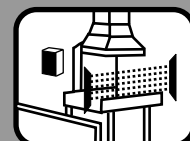
Detection of height for sheet / tiles / paper. Etc.



Tablet positioning detection / On-line Empty tablet detection



Loop control system web edge guide control



Electronic Safety Guard for human safety

WARRANTY

Electronic Switches (India) Pvt. Ltd; warrants all the products to be free from defects in material and workmanship in normal use and service for a period of one year. Our obligation under this warrantee is limited to making goods at the factory. Defective parts returned to us , with transportation charges prepaid, within one year after delivery to original purchaser and shown by our examination to have been defective, will be repaired or replaced without cost to original purchaser. Electronic Switches (India) Pvt. Ltd; is not liable for damage or injury to persons or property which may result from the use of these products / while using these products.

