

Simplified Automation

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**AUTOMATION**  
**For Us Is To**  
**THINK, TEST, TRANSFORM**  
**TECHNOLOGY**  
**For A Better**  
**TOMORROW**



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## About Us

Raytech Automation, based in Mumbai is a leading manufacturer of industrial automation, electronic and electric products in India.

Our products find wide application in sectors such as automation, manufacturing, plastic and process industry, pharmaceuticals, packaging and printing, bearing, textile, construction, automotive, SPMs, ceramic industry, machine tools industry, etc.

We, at Raytech Automation bring decades of experience, expertise and enthusiasm in our products.

## Values

Our core values believe in providing customers unconditional support. Efficient Service, Quality Assurance, Timely Delivery, Relationship Building and Retention of Work define our Business Principles and Ethics.

## Aim

We thrive for perfection with optimum use of resources. Our Aim is to offer a product of German Quality with Japanese Precision at Indian pricing. The aim of belief stands from 'make happen' to 'made happy'.






**Manufacturing**  
**Plastic & Processing**  
**Printing & Packaging**  
**Textile**



**Ceramic**  
**Construction**  
**SPMs**



**Machine Tools**  
**Automotive**  
**Pharmaceutical**

## Sensors

## Connectors

## Controllers

## Safety Light Curtains

## CNC Machine Tools

## Industrial Glands





# SENSORS

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## Inductive Proximity Sensors



### DC Inductive Sensor - Connector Type

TECHNICAL SPECIFICATION	
Type	DC PNP/NPN, NO/NC
Operating voltage	10 - 30V DC
Current consumption	<15mA DC
Output voltage drop at maximum load	<2V DC
Maximum load current	200mA
Sensing distance ( $S_s$ )	As per standard
Real sensing distance ( $S_r$ )	$S_s \pm 10\%$
Hysteresis	5 to 15% of $S_s$
Protection class	IP 67
Operating temperature	0 - 70° C
Standard target	M8 - 8 x 8 x 1 mm made of mild steel
	M12 - 12 x 12 x 1 mm made of mild steel
	M18 - 18 x 18 x 1 mm made of mild steel
	M30 - 30 x 30 x 1mm made of mild steel
Correction factors approximately	SS-0.7, Al/Brass-0.4, Copper-0.3

### DC Inductive Sensor - Cable Type



TECHNICAL SPECIFICATION	
Type	DC 2 WIRE, NO/NC
Operating voltage	10 - 30V DC
OFF state current	<2mA DC
Voltage drop at maximum load	<4V
Maximum load current	200mA
Sensing distance ( $S_s$ )	As per standard
Real sensing distance ( $S_r$ )	$S_s \pm 10\%$
Effective sensing distance ( $S_e$ )	$0.81 S_s = S_e = 1.21 S_s$
Hysteresis	5 to 15% of $S_s$
Protection class	IP 67
Operating temperature	0 - 70° C
	M12 - 12 x 12 x 1 mm made of mild steel
	M18 - 18 x 18 x 1 mm made of mild steel
Correction factors approximately	SS-0.7, Al/Brass-0.4, Copper-0.3

## Inductive Proximity Sensors



### AC Inductive Sensor

#### TECHNICAL SPECIFICATION

Type	AC 2 WIRE, NO/NC
Operating voltage	24V - 270V AC
OFF state current	< 2mA AC
Voltage drop at maximum load	<8.5V AC
Maximum load current	250mA AC
Sensing distance (S <sub>n</sub> )	As per standard
Real sensing distance (S <sub>r</sub> )	S <sub>n</sub> ± 10%
Effective sensing distance (S <sub>e</sub> )	0.81 S <sub>n</sub> = S <sub>r</sub> = 1.21 S <sub>n</sub>
Hysteresis	5 to 15% of S <sub>n</sub>
Protection class	IP 67
Operating temperature	0 -70° C
	M12 - 12 x 12 x 1 mm made of mild steel
	M18 - 18 x 18 x 1 mm made of mild steel
Correction factors approximately	SS-0.7, Al/Brass-0.4, Copper-0.3
Correction factors approximately	SS-0.7, Al/Brass-0.4, Copper-0.3



### Analog Sensors

#### TECHNICAL SPECIFICATION

Supply Voltage	18-30 VDC
Supply Current	10 Ma
Temperature Range	25°C to +70°C
	0°C to +70°C
Degree of Protection	IP 67
Housing Material	Nickel Plated Brass & Plastic
Frequency Response	1 KHz
Load Resistance	0.1 - 500 Ohms
Sensing Distance	
M 18	1 - 4 mm
M 30	7 - 14 mm
Output	0 - 20mA OR 0 - 10mA



# SENSORS



## Inductive Proximity Sensors

### DC-Namur Sensors



TECHNICAL SPECIFICATION	
Voltage Range	5-15 VDC
Ripple Voltage	= 10%
Repeat Accuracy	0.01 mm
Temperature Range	0°C to +70°C
Degree of Protection	IP 67
Terminal	Cable 2 m 2 x 0.34 Sq. mm.
Housing Material	
Metal	Brass Nickel Chrome Plated

Max. Switching Freq. (kHz - with ohmic load)				
Size	M8	M12	M18	M30
Flush	2	1.5	0.8	0.5
Non-Flush	2	1.5	0.8	0.5

## Capacitive Sensors



### DC Capacitive Sensor



TECHNICAL SPECIFICATION	
Type	DC PNP/NPN, NO/NC
Operating voltage	10 - 30V DC
Current consumption	<15mA DC
Output voltage drop at maximum load	<2V DC
Maximum load current	200mA
Sensing distance (S <sub>n</sub> )	As per standard
Real sensing distance (S <sub>r</sub> )	S <sub>r</sub> ± 10%
Effective sensing distance (S <sub>e</sub> )	0.81 S <sub>n</sub> = S <sub>e</sub> = 1.21 S <sub>r</sub>
Hysteresis	5 to 15% of S <sub>n</sub>
Protection class	IP 67
Operating temperature	0-70°C



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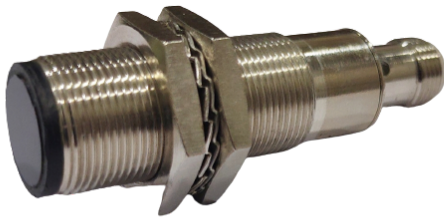
# SENSORS



## Photo Sensors



### DC Photo Sensor



#### TECHNICAL SPECIFICATION

Type	Diffused/Retro-reflection / Through beam
Configuration	PNP/NPN, NO, NC
Operating voltage	10 - 30V DC
Current consumption	<30mA DC
Output voltage drop at maximum load	<2V DC
Maximum load current	200mA
Sensing distance (S <sub>n</sub> )	Refer Ordering table
Real sensing distance (S <sub>r</sub> )	S <sub>n</sub> ± 10%
Hysteresis	5 to 15% of S <sub>n</sub>
Protection class	IP 67
Operating temperature	0 -70° C

## Magnetic Sensors



### Magnetic Hall Sensor



#### TECHNICAL SPECIFICATION

Type	DC
Operating voltage	10 - 30V DC
Current consumption	<20mA DC
Output voltage drop at max. load	<2V DC
Maximum load current	<25mA
Sensing distance (S <sub>n</sub> )	2mm
Real sensing distance (S <sub>r</sub> )	S <sub>n</sub> ± 10%
Protection class	IP 67
Operating temperature	0 -70° C



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# SENSORS



## Magnetic Sensors

### Magnetic Reed Switches



Sr. No.	Model No.	Equivalent Model No.	Image
1	RTA-JNFL-4	JANATICS Make AM40-0-FL-04	
2	RTA-JNAM-1025	JANATICS Make AM1025	 For Tie-Rod Cylinder, Round Cylinder
3	RTA-SMA-93	SMC Make D-A93-LUG	 For Round Groove (SMC)
4	PBE Bracket	Round Cylinder-Uni Bracket for all	 
5	PCD+PC Bracket	Tie Rod Cylinder- Uni Bracket for all	 
6	RTA-FT-K-08	FESTO Make (150855) SME-8-K-LED-24V	 For T- Groove, (FESTO, Parker, SMC)
7	RTA-FT-M-08	FESTO Make (543862) SME-8M-DS-24V-K-2,5-OE	
8	RTA-FT-MZS-08	FESTO Make (543872) SME-8M-ZS-24V-K-2,5-OE	
9	RTA-JNFL-14	JANATICS Make AM40-1-FL-04	 For T- Groove, (FESTO, Parker, SMC)
10	RTA-SMM-9B	SMC Make D-M9B-LUG	 For Round Groove (SMC)
11	RTA-SMM-9P	SMC Make D-M9P-LUG	 For Round Groove (SMC)



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# CONNECTORS

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# Molded Connectors



## Ordering Code Information

		M/S/MLE 08/12 FM/ML ST/RT 3/4P/n A/B PV/PU 2/n			
<b>VERSION</b>				<b>LENGTH</b>	
Mold Connector	M			2 Mtr.	2
Self-Assembly Connector	S			As per order requirement	n
Mold Connector with LED	MLE				
<b>CONNECTOR TYPE</b>				<b>CABLE TYPE</b>	
Type M8	08			PVC cable	PV
Type M12	12			PUR cable	PU
<b>CONNECTOR MOLD</b>				<b>CODED</b>	
Female	FM			A coded	A
Male	ML			B coded	B
<b>FORM FACTOR</b>		<b>CABLE CORE</b>			
Straight Angle	ST	3 core	3		
Right Angle	RT	4 core	4		
		5 core	5		
		8 core	8		
		4 pin	4P		
		5 pin	5P		



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# Molded Connectors



Type	Product Description	Code
M8	Female - Straight - 3 core - A coded - PVC cable	M08FMST3APV2
M8	Female - Straight - 4 core - A coded - PVC cable	M08FMST4APV2
M8	Female - Right - 3 core - A coded - PVC cable	M08FMRT3APV2
M8	Female - Right - 4 core - A coded - PVC cable	M08FMRT4APV2
M8	Male - Straight - 3 core - A coded - PVC cable	M08MLST3APV2
M8	Male - Straight - 4 core - A coded - PVC cable	M08MLST4APV2
M12	Female - Straight - 3 core - A coded - PVC cable	M12FMST3APV2
M12	Female - Straight - 4 core - A coded - PVC cable	M12FMST4APV2
M12	Female - Straight - 5 core - A coded - PVC cable	M12FMST5APV2
M12	Female - Straight - 8 core - A coded - PVC cable	M12FMST8APV2
M12	Female - Right - 3 core - A coded - PVC cable	M12FMRT3APV2
M12	Female - Right - 4 core - A coded - PVC cable	M12FMRT4APV2
M12	Female - Right - 5 core - A coded - PVC cable	M12FMRT5APV2
M12	Female - Right - 8 core - A coded - PVC cable	M12FMRT8APV2
M12	Male - Straight - 3 core - A coded - PVC cable	M12MLST3APV2
M12	Male - Straight - 4 core - A coded - PVC cable	M12MLST4APV2
M12	Male - Straight - 5 core - A coded - PVC cable	M12MLST5APV2
M12	Male - Straight - 8 core - A coded - PVC cable	M12MLST8APV2
M12	Male - Right - 3 core - A coded - PVC cable	M12MLRT3APV2
M12	Male - Right - 4 core - A coded - PVC cable	M12MLRT4APV2
M12	Male - Right - 5 core - A coded - PVC cable	M12MLRT5APV2
M12	Male - Right - 8 core - A coded - PVC cable	M12MLRT8APV2
M12 LED	Female - Right - 3 core LED - A coded - PVC cable	MLE12FMRT3APV2
M12 LED	Female - Right - 4 core LED - A coded - PVC cable	MLE12FMRT4APV2



## Note:

PUR cable provided as per order requirement

Standard cable length 2 mtr. For more cable length, contact us for quote



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# Self-Assembly Connectors



## Ordering Code Information

		M/S/MLE 08/12 FM/ML ST/RT 3/4P/n A/B PV/PU 2/n			
<b>VERSION</b>				<b>LENGTH</b>	
Mold Connector	M			2 Mtr.	2
Self-Assembly Connector	S			As per order requirement	n
Mold Connector with LED	MLE			<b>CABLE TYPE</b>	
<b>CONNECTOR TYPE</b>				PVC cable	PV
Type M8	08			PUR cable	PU
Type M12	12			<b>CODED</b>	
<b>CONNECTOR MOLD</b>				A coded	A
Female	FM			B coded	B
Male	ML			<b>CABLE CORE</b>	
<b>FORM FACTOR</b>				3 core	3
Straight Angle	ST			4 core	4
Right Angle	RT			5 core	5
				8 core	8
				4 pin	4P
				5 pin	5P

Type	Product Description	Code
M12	Female - Straight - 4 pin - A coded	S12FMST4PA
M12	Female - Straight - 5 pin - A coded	S12FMST5PA
M12	Female - Right - 4 pin - A coded	S12FMRT4PA
M12	Female - Right - 5 pin - A coded	S12FMRT5PA



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# Molded Dual Connectors

## Ordering Code Information

		MD-8/12-F-S/R-S/R-F/M-3/4-A/B-PV/PU-2/n					
<b>VERSION</b>				<b>LENGTH</b>			
Mold Dual Connector	MD			2 Mtr.	2		
				As per order requirement	n		
<b>CONNECTOR TYPE</b>						<b>CABLE TYPE</b>	
Type M8	08			PVC cable	PV		
Type M12	12			PUR cable	PU		
<b>CONNECTOR MOLD</b>						<b>CODED</b>	
Female	FM			A coded	A		
				B coded	B		
<b>FORM FACTOR</b>						<b>CABLE CORE</b>	
Straight Angle	S			3 core	3		
Right Angle	R	4 core	4				
<b>DUAL FORM FACTOR</b>				<b>DUAL CONNECTOR MOLD</b>			
Straight Angle	S	Female	F				
Right Angle	R	Male	M				

Type	Product Description	Code
M8	Female - Right - Straight - Male - 3 core - A coded - PVC cable	MD08FRSM3APV2
M8	Female - Right - Straight - Male - 4 core - A coded - PVC cable	MD08FRSM4APV2
M8	Female - Straight - Straight - Male - 3 core - A coded - PVC cable	MD08FSSM3APV2
M8	Female - Straight - Straight - Male - 4 core - A coded - PVC cable	MD08FSSM4APV2
M12	Female - Right - Right - Female - 3 core - A coded - PVC cable	MD12FRRF3APV2
M12	Female - Right - Right - Female - 4 core - A coded - PVC cable	MD12FRRF4APV2
M12	Female - Right - Straight - Female - 3 core - A coded - PVC cable	MD12FRSF3APV2
M12	Female - Right - Straight - Female - 4 core - A coded - PVC cable	MD12FRSF4APV2
M12	Female - Right - Straight - Male - 3 core - A coded - PVC cable	MD12FRSM3APV2
M12	Female - Right - Straight - Male - 4 core - A coded - PVC cable	MD12FRSM4APV2
M12	Female - Right - Right - Male - 3 core - A coded - PVC cable	MD12FRRM3APV2
M12	Female - Right - Right - Male - 4 core - A coded - PVC cable	MD12FRRM4APV2
M12	Female - Straight - Straight - Male - 3 core - A coded - PVC cable	MD12FSSM3APV2
M12	Female - Straight - Straight - Male - 4 core - A coded - PVC cable	MD12FSSM4APV2
M12	Female - Straight - Right - Male - 3 core - A coded - PVC cable	MD12FSRM3APV2
M12	Female - Straight - Right - Male - 4 core - A coded - PVC cable	MD12FSRM4APV2

**Note:**

PUR cable provided as per order requirement

Standard cable length 2 mtr. For more cable length, contact us for quote



# Panel Mounted Connectors



## Ordering Code Information

		PM - 12 - FM/ML - 4C/n - A			
<b>VERSION</b>				<b>CODED</b>	
Panel Mounted	PM			A coded	A
				B coded	B
<b>CONNECTOR TYPE</b>				<b>CABLE CORE</b>	
Type M12	12			4 core	4
				5 core	5
				8 core	8
<b>CONNECTOR MOLD</b>					
Female	FM				
Male	ML				

Type	Product Description	Code
M12	Female - Panel Mount - 4 core - A coded	PM12FM4A
M12	Female - Panel Mount - 5 core - A coded	PM12FM5A
M12	Female - Panel Mount - 8 core - A coded	PM12FM8A
M12	Male - Panel Mount - 4 core - A coded	PM12ML4A
M12	Male - Panel Mount - 5 core - A coded	PM12ML5A
M12	Male - Panel Mount - 8 core - A coded	PM12ML8A

### Note:

Available in Soldered and Cable types

Cable: PVC

Length: Standard cable length 200 mm.



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# CONTROLLERS

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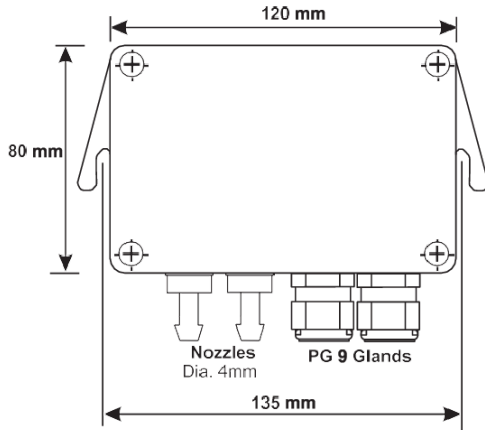
# RTA-DPT-10M230V

## Differential Pressure Transducer

0 to 10 mbar

0 to 10 Vdc

### Dimensions



### Reference Image



### Electrical Data:

Auxiliary Supply Voltage	230VAC@50 Hz ±10%
Pressure Range	0 to 10 mbar
Output	0 to 10 VDC
Accuracy	1 % FS
Linearity Error	max 3%
Over Pressure	100 mbar
Burst Pressure	2 Bar
Operating Temperature	0 °C to 70°C
Storage Temperature	0 °C to 70°C
Display	NO

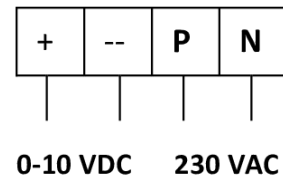
### Mechanical Data:

Mounting	Through Clamp
Pressure Input	Through Nozzle
Nozzle Material	Brass
Nozzle Diameter	4mm
Pressure Connection	Through pipe O.D. 6.5 mm: I.D. 4 mm
Housing Material	Engineering Plastic-PC
Housing Size	120 x 80 x 56mm
Termination	Through PG 9 Gland

### General Data:

Degree of Protection IP54

### Wiring Diagram:



### Connection Detail:

Terminal No.	Detail
N	230 Vac(~)
P	230 Vac (~)
+	V o/p
-	Gnd

# RTA-DPT-25M230V

## Differential Pressure Transducer

0 to 25 mbar

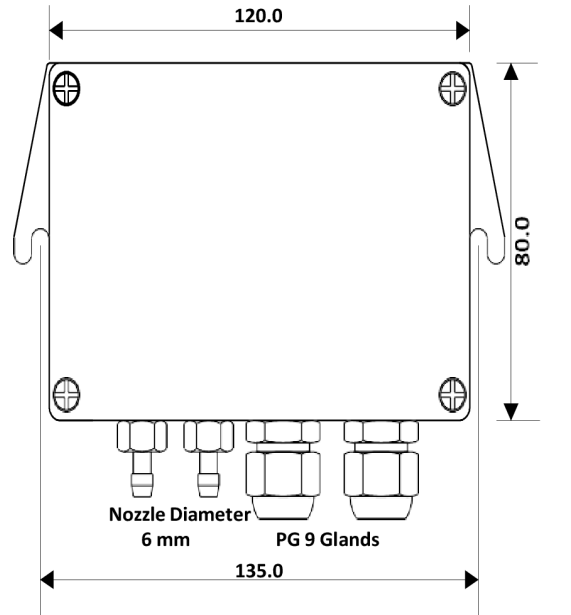
0 to 10 Vdc

### General Specification



Degree of Protection

IP65



All dimensions are in mm

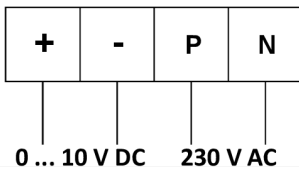
### Mechanical Specification

Housing Size	120 x 80 x 56 mm
Housing Material	Engineering Plastic-PC
Mounting	Through Clamp
Pressure Input	Through Nozzle
Nozzle Diameter	6 mm
Nozzle Material	Brass
Pressure Connection	Through Pipe
	O.D. 6.5 mm: I.D. 4 mm
Termination	Through PG9 Gland
Operating Temperature	0°C ... 55°C
Storage Temperature	0°C ... 70°C

### Electrical Specification

Operating Voltage	230 V AC @ 50 Hz ± 10%
Pressure Range	0 ... 25 mbar
Output	0 ... 10 V DC
Accuracy	1% FS
Linearity Error	Max. 1%
Over Pressure	1 Bar
Burst Pressure	± 1.5 Bar
Load Resistance	≥ 4.7 kΩ

### Wiring Diagram



### Connection Detail

Terminal No.	Detail
P	230 V AC (L)
N	230 V AC (N)
+	V O/P
-	GND

# POWER SUPPLY RELAY UNITS



## Power Relay 1 C/O

### TECHNICAL SPECIFICATION:

<b>Model: RTA RELAY 1 C/O</b>	
Supply voltage	230V AC, 50Hz
Operating voltage range	90-285V AC, 50Hz
Power consumption	<3 VA
<b>OUTPUTS</b>	
Power supply for sensor	+24V DC, 0V DC; 100mA
Relay	1 C/O, 5A at 250V AC resistive load
<b>SIGNAL INPUTS</b>	
Sensor	NPN NO / PNP NO
Mounting	Din Rail



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# POWER SUPPLY RELAY UNITS



## Power Relay 2 C/O

### TECHNICAL SPECIFICATION

<b>Model: RTA RELAY 2 C/O</b>	
Supply voltage range	230V AC, 50Hz
Operating voltage range	90-285V AC, 50Hz
Power consumption	<3VA
<b>OUTPUTS</b>	
Power supply for sensor	+24V DC, 0V DC; 100mA
Relay	2 C/O, 5A at 250V AC resistive load
<b>SIGNAL INPUTS</b>	
Sensor	NPN NO / PNP NO
Mounting	Din Rail



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Model: RTA-ODT-01	
Supply voltage	230 AC±20% 24 V DC±20%
Power consumption	2 VA, 0.75W max (for DC)
Set time	0.1s-10h adjustable
Timing accuracy	±0.02% of set time
Reset	Reset by power OFF
Power OFF time for reset	0.5 s
<b>OUTPUT</b>	
Relay	2 C/O relay contact rated at 5A@250V AC(Resistive load)



Model: RTA-ODT-02	
Supply voltage	230 AC±20% 24 V DC±20%
Power consumption	2 VA, 0.75W max (for DC)
Set time	0.1s-10h adjustable
Timing accuracy	±0.02% of set time
Reset	Reset by power OFF
Power OFF time for reset	0.5 s
<b>OUTPUT</b>	
Relay	2 C/O relay contact rated at 5A@250V AC(Resistive load)



Model: RTA-SSTDR	
Control voltage	24V DC ±20%
Unit current	<20mA @ 24V DC
Indication	Orange / Yellow
Protection	Reverse polarity
Interval time delay	1 - 15 Secs (Adjustable)
Time delay setting accuracy	±20%
<b>OUTPUT</b>	
Supply voltage	24V DC ±15%
Indication	Green LED
Load current	2A
Protection	a) Short circuit of load b) Inductive load dump Protection



Model: RTA-CT-01	
Supply voltage	230V AC±20%
Power consumption	2VA
Forward & Reverse time	0.03-6m (Adjustable)
Pause time	0.1-60s (Adjustable)
Reset	Reset by power OFF
<b>OUTPUT</b>	
Relay	1 C/O relay contact rated at 7A@250V AC(Resistive load)



Model: RTA-CT-02	
Supply voltage	230V AC±20% OR 24V DC±20%
Power consumption	2 VA, 0.75W (For DC)
Set time	0.1s-10h adjustable
Timing accuracy	±0.02% of set time
Reset	Reset by power OFF
Relay state at power ON	ON
<b>OUTPUT</b>	
Relay	2 C/O relay contact rated at 5A@250V AC(Resistive load)



Model: RTA-CT-03	
Supply voltage	230V AC±20% OR 24V DC±20%
Power consumption	2 VA, 0.75W (For DC)
Set time	0.1s-10h adjustable
Timing accuracy	±0.02% of set time
Reset	Reset by power OFF
Relay state at power ON	OFF
<b>OUTPUT</b>	
Relay	2 C/O relay contact rated at 5A@250V AC(Resistive load)

# Monitoring & Control Relay



## TECHNICAL SPECIFICATION

### Phase Monitoring Relay



<b>Model: RTA PMR</b>	
Nominal mains voltage	L-L : 400 V AC : L-N: 230 V AC
Minimum required device supply	L2-L3: 220 V AC
Monitoring parameters	Over voltage, Under voltage, Phase sequence and Phase loss
Operation mode	3 Phase 4 wire ( L-N )
	3 Phase 3 wire ( L-L )
Operating value setting range	<b>Under voltage</b>
	-30% to 0% of nominal
	L-L: 280-400
	L-N: 161-230
	<b>Over voltage</b>
	0% to 25% of nominal
	L-L: 400-500
	L-N: 230-288
Phase loss operation	<60% of nominal.
	For L-L: <240V AC,
	L-N: <138V AC
Start up delay	1/5s selectable by DIP switch
<b>OUTPUTS</b>	
Relay	2 SPDT
Mounting	DIN rail



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## Speed Monitoring Relay - AC



### TECHNICAL SPECIFICATION

<b>Model: RTA SMR AC</b>	
Supply voltage	230V AC, 50Hz
Operating voltage range	85-285V AC, 50Hz
Power consumption	< 3VA
<b>OUTPUTS</b>	
Power supply for sensor	+24V DC, 0V DC ; 50 mA
Power supply for trigger logic	+24V DC
Relay	1 C/O Contact rating: 250V AC, 10A resistive load
<b>SIGNAL INPUTS</b>	
Sensor	NPN NO / PNP NO
Trigger	+24V DC (TRG)
Mounting	DIN rail

# Monitoring & Control Relay



## Speed Monitoring Relay - DC

### TECHNICAL SPECIFICATION



<b>Model: RTA SMR DC</b>	
Supply voltage	24V DC
Operating voltage range	19-28V DC
Power consumption	2W
<b>OUTPUTS</b>	
Power supply for sensor	+24V DC, 0V DC ; 50 mA
Relay	1 C/O Contact rating: 250V AC, 10A resistive load
<b>SIGNAL INPUTS</b>	
Sensor	NPN NO / PNP NO
Mounting	DIN rail

## Sensor Timer

### TECHNICAL SPECIFICATION

<b>Model: RTA SMR DC</b>	
Supply voltage	24V DC
Operating voltage range	19-28V DC
Power consumption	2W
<b>OUTPUTS</b>	
Power supply for sensor	+24V DC, 0V DC ; 50 mA
Relay	1 C/O Contact rating: 250V AC, 10A resistive load
<b>SIGNAL INPUTS</b>	
Sensor	NPN NO / PNP NO
Mounting	DIN rail



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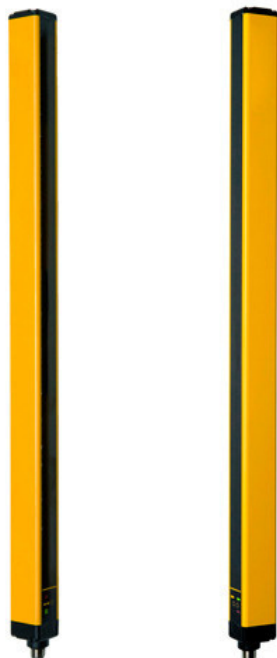
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# SAFETY LIGHT CURTAINS

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# Safety Light Curtains



- SLCs can be mounted in any position, Vertical / Horizontal
- Easy to install
- LED mentions status indication of each channel
- LED indications are provided for each output too
- Varied barrier available for heights covering 90 mm to 1890 mm
- Sensor connections provided through plug in connectors
- Non-Critical alignment between Emitter & Receiver
- Self Checking Circuit with 2 outputs continuously monitor system failure of any beam and stops the machine if failure detected
- Increases productivity while maintaining required safety

Safety Light Curtains : Hand Protection						
Dual Output Models		Supply : 12 - 24 V DC		Output : PNP / NPN		
Covered Range						
PB		CB		CB (Pitch)		
300 mm	3/5/10/15/20 m	500 mm	3/5/10/15/20 m	50 mm	1 - 3/5/10/15/20 m	
LED Indication and each beam By-Pass						
Protected Height	Parallel Beam		Cross Beam		Pitch	Overall Height
	mm	Models	Beam	Models		
150	RTA PB 3006	6	RTA CB 3006	16	30	245
180	RTA PB 2010	10	RTA CB 2010	28	20	295
200	RTA PB 4006	6	RTA CB 4006	16	40	295
210	RTA PB 3008	8	RTA CB 3008	22	30	290
250	RTA PB 5006	6	RTA CB 5006	16	50	345
270	RTA PB 3010	10	RTA CB 3010	28	30	365
280	RTA PB 4008	8	RTA CB 4008	22	40	375
300	RTA PB 2016	16	RTA CB 2016	46	20	405
350	RTA PB 5008	8	RTA CB 5008	22	50	440
360	RTA PB 4010	10	RTA CB 4010	28	40	455
380	RTA PB 2020	20	RTA CB 2020	58	20	485
450	RTA PB 5010	10	RTA CB 5010	28	50	545
450	RTA PB 3016	16	RTA CB 3016	46	30	530
500	RTA PB 2026	26	RTA CB 2026	76	20	615
600	RTA PB 4016	16	RTA CB 4016	46	40	685
620	RTA PB 2032	32	RTA CB 2032	94	20	740
690	RTA PB 3024	24	RTA CB 3024	70	30	770
750	RTA PB 5016	16	RTA CB 5016	46	50	840
780	RTA PB 2040	40	RTA CB 2040	118	20	885
920	RTA PB 4024	24	RTA CB 4024	70	40	1010
930	RTA PB 3032	32	RTA CB 3032	94	30	1010
1150	RTA PB 5024	24	RTA CB 5024	70	50	1240
1170	RTA PB 3040	40	RTA CB 3040	118	30	1255
1240	RTA PB 4032	32	RTA CB 4032	94	40	1335
1410	RTA PB 3048	48	RTA CB 3048	142	30	1485
1550	RTA PB 5032	32	RTA CB 5032	94	50	1640
1560	RTA PB 4040	40	RTA CB 4040	118	40	1660
1650	RTA PB 3056	56	RTA CB 3056	166	30	1715
1890	RTA PB 3064	64	RTA CB 3064	190	30	1970

First 2 digits of model indicate pitch and other 2 digits indicate number of beams  
 Dual Output Models are preferred as per Safety Standards  
 Additional models with multiple of 8 beams may be offered





# CNC MACHINE TOOLS & PRODUCTS

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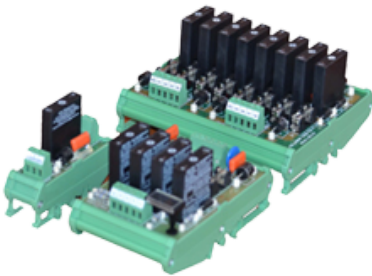
## MACHINE CONTROL PANEL

Supply voltage	24V DC
Type	Push Button
Size & Appearance	Customer Specific
Design & Application	Customer Specific



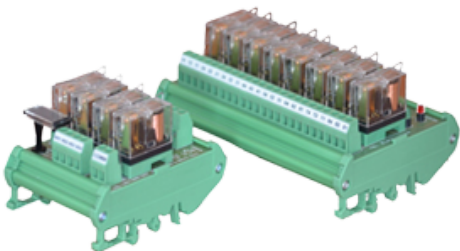
## PORTABLE MPG BOX

Supply voltage	24V DC
Dimension	156mm x 95mm x 53mm
Material	ABS
Switches	Axis select switch, Increment select switch



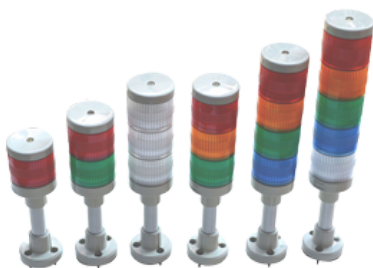
## SOLID STATE RELAY MODULES

Channels	1, 2, 4, 8, 16
Control voltage ( $V_{in}$ )	20 to 28V DC
$V_{out}$	24V DC, 110V AC, 230V AC
$I_{out}$	1.8A for DC & 1A for AC
Unit mounting	DIN Rail (RTA/Phoenix profile)
Relay mounting	PCB / SOCKET



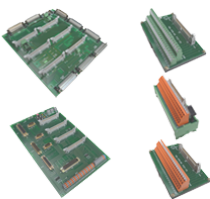
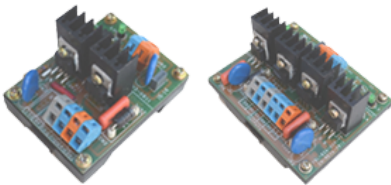
## ELECTROMECHANICAL RELAY MODULES

Channels	1, 2, 4, 8, 16
Control voltage ( $V_{in}$ )	20 to 28V DC
$V_{out}$	Potential free contact
$I_{out}$	5A / 10A at 250V AC / 30V DC resistive load
Unit mounting	DIN Rail (RTA / Phoenix profile)
Relay mounting	PCB / SOCKET



## SIGNAL TOWER LAMP

Supply voltage	8V-12V DC, 24VDC, 24V AC, 110V AC, 230V AC
Stack Size	1, 2, 3, 4, 5
Colour	Red(R), Amber(A), Green(G), Blue(B), Clear (C)
Function	Steady / Flash



## LOAD METER

Supply voltage ( $V_{in}$ )	24V DC + 20%
Input signal type	Voltage / Current
Input signal range	Voltage : 0 to 10 V DC, Current : 4 to 20mA
Output	12 Way Bar Graph

## TOOL STATION DISPLAY

Supply voltage	24V DC + 20%
BCD input voltage ( $V_{in}$ )	24V DC + 20%
No. of BCD inputs	4, 6, 8
Decimal output	0 to 9, 0 to 12, 0 to 63, 0 to 99

## CURRENT SENSING RELAY

<b>Model: RTA-CSR</b>	
Operating Supply	24 V DC $\pm$ 20%
Input sensing current	Sensing current set at 0.5A (Fixed)
Power consumption	2W
<b>OUTPUTS</b>	
Relay	1 C/O, Contact rating 2A @ 30V DC
Mounting	DIN Rail

## CNC BRAKE MODULE

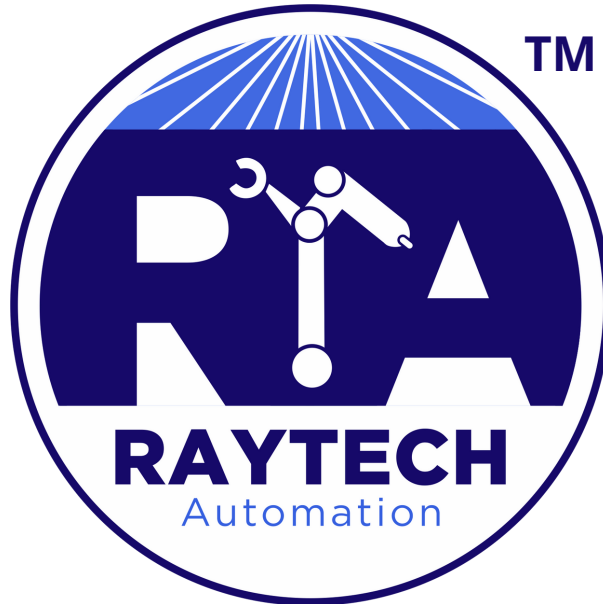
Channels	1, 2
Control voltage ( $V_{in}$ )	20 to 28V DC
$V_{out}$	24V DC
$I_{out}$	1.8A per channel
Relay mounting	PCB
Unit mounting	DIN Rail (RTA Modular base)

## CNC ON OFF

Control voltage ( $V_{in}$ )	20 to 28V DC
$V_{out}$	24V DC
$I_{out}$	1.8A
Unit mounting	DIN Rail (RTA Modular base)

## INTERFACE MODULE

Type	Custom specific
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# INDUSTRIAL GLANDS

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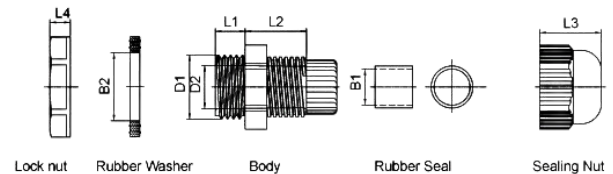


# Polyamide Cable Glands

The polyamide based cable glands are designed for universal industry use. It is an ideal solution for every application. It maintains functional safety in varied manufacturing process, addition to automation, electronic, control-measurement technologies and robot manufacturing. It reduces risk of cable breaks and wear outs by securing the wire. We provide major range of sizes with respect to suitable applications.

## Features:

- Durability
- Qualitative
- Liquid tight
- Good strain relief
- Efficiency
- Excellent Grip



## Technical Specifications:

- Gland Body Material – Polypropylene Copolymer (PPCP)
- Cap Nut Material – Polypropylene Copolymer (PPCP)
- Sealing Ring Material – Polypropylene Copolymer (PPCP)
- O Ring Material – Natural Rubber
- Colour – White / Gray / Black
- Temperature Range – Static: -40°C to +100°C  
Dynamic: -20°C to +80°C
- Protection Class / IP Rating – IP 68
- Thread Standard – PG



# PG / Cable Dia.

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Sr.	Product	Cable Dia.
1	PG - 7	3 - 6.5 mm
2	PG - 9	4 - 8 mm
3	PG - 11	5 - 10 mm
4	PG - 13.5	6 - 12 mm
5	PG - 16	10 - 14 mm
6	PG - 19	12 - 15 mm
7	PG - 21	13 - 18 mm






# CONTACT US

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