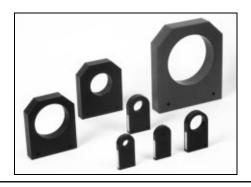


Inductive

Ring DC 4 Wire



FEATURES:

- Internal diameters of 5, 12, 15, 22, 25, 30, 44, 63, 100 mm
- Adjustable sensitivity
- Delay ON/OFF switch
- LED function indicator
- Short circuit & reverse polarity protection
- Pre-wired cable or connector models
- 3.5, 5, 7.5 and 10 meter cable lengths upon request
- CEMarked
- Protection degree IP65: dust tight and protection against water jets.

DESCRIPTION:

In inductive ring sensors, the sensing area is located inside the ring. These sensors are designed to detect metallic masses entering or passing through the ring. They are ideal for sensing, counting and checking of small metal parts such as: screws, washers, nuts etc. and the control, detection, position, inspection and automation of machine tools & manufacturing systems.

They operate on a 10-30 Vdc supply and offer NPN or PNP, NO+NC outputs. They are sealed in a rugged, plastic housing with

a protection degree of IP 65. All versions have short circuit and reverse polarity protection and are available in either prewired cable or connector output connection. Each unit is supplied with a sensitivity adjustment and a delay ON/OFF switch that fixes the output pulse for 100mS. This makes them ideal for detection of fast moving small metal objects. Special version NAMUR output is available.

The operating distance of the sensor depends on the actuator shape and size and is strictly linked to the nature of the metal. For minimum target size, see Table 1.

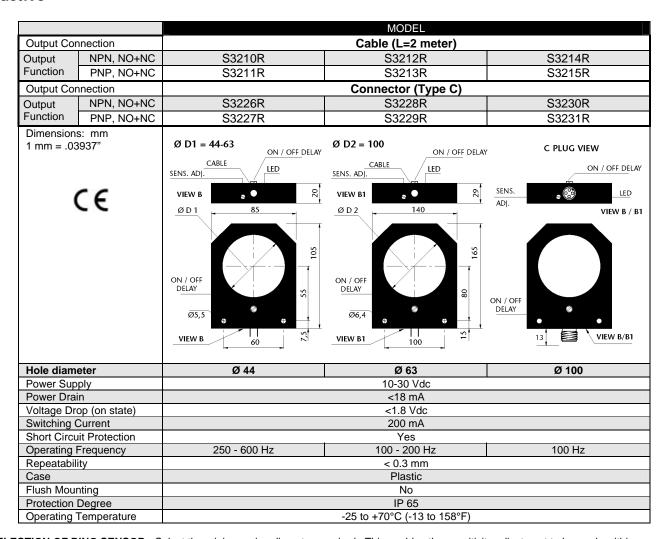
				MODEL					
Output Connection		Cable (L=2 meter)							
Output NPN, NO+NC		S3200R	S3236R	· ' '		S3208R			
Function	PNP, NO+NC	S3201R	S3202R S3203R	S3237R		S3204R S3205R	S3209R		
Output Cor	nection	Connector (Type C)							
Output	NPN, NO+NC	S3216R	S3218R	S3238R		S3220R	S3224R		
Function	PNP, NO+NC	S3217R	S3219R	S3239R		S3221R	S3225R		
Dimensions: mm 1 mm = .03937"		VIEW A VIEW A VIEW B LED SENS. ADJ. ON / OFF DELAY I 1 VIEW B VIEW B VIEW B VIEW B ON / OFF DELAY ON / OFF DELAY I 1 VIEW B							
Hole diam	eter	Ø 5	Ø 12	Ø 15		Ø 22	Ø 30		
Power Sup	ply	10-30 Vdc							
Power Drain		<18 mA							
Voltage Drop (on state)		<1.8 Vdc							
Switching Current		200 mA							
Short Circuit Protection		Yes							
Operating Frequency		600 - 1500 Hz 600 - 1000 Hz 600 - 1000 Hz 600 - 800 Hz					600 - 800 Hz		
Repeatability		< 0.3 mm							
Case		Plastic							
Flush Mounting		No							
Protection Degree		IP 65							
Operating Temperature		-25 to +70°C (-13 to 158°F)							

Table 1

Min. dimensions of target Iron (Fe37).								
Hole Diameter	5 mm	12 mm	15 mm	22 mm	30 mm	44 mm	63 mm	100 mm
Length mm	1	2	2	6	7	9	12	20
Diameter mm	0.7	1.2	1.2	3	4	5	6	12



Inductive



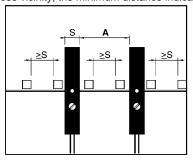
SELECTION OF RING SENSOR: Select the minimum ring diameter required. This enables the sensitivity adjustment to be made within normal parameters ensuring proper functioning of the unit.

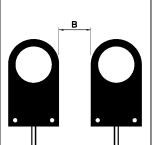
SENSITIVITY ADJUSTMENT: After selection of the ring diameter, it is recommended that the sensitivity adjustment be made while the sensor is installed in its final position, enabling any surrounding metal to be taken into account. Sensitivity increases by turning the trimmer clockwise and decreases by turning it counter-clockwise.

EFFECTS OF METAL IN THE CLOSE VICINITY: Moving metal parts close to the sensing area can affect the performance of the sensor. In order to ensure proper functioning, mount the sensor away from metallic objects.

USE OF SENSOR: A distance equal to the width of the sensor should be left between each object that passes through the sensor. If more than one sensor is to be installed in close vicinity, the minimum distance indicated between sensors should be observed.

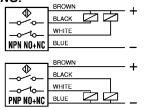




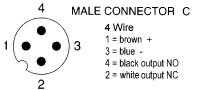


Hole Dia.	A (mm)	B (mm)	
5 mm	25	10	
12 & 15 mm	30	10	
22 mm	60	20	
30 mm	60	20	
44 mm	300	250	
63 mm	300	250	
100 mm	600	650	

WIRING:



CONNECTOR:



MATING CONNECTORS:

MATING CONNECTORS:					
ID# 4 wire		ре	Description		
S3496 S3496	6/2 6 9/2	С	right angle w/ 2 meter cable right angle w/ 5 meter cable straight w/ 2 meter cable straight w/ 5 meter cable		

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