

MODULOC

SERIES 2000 LONG RANGE INDUCTIVE SENSORS

Base mount onto or embedded into steel surround

Coil lengths according to requirements with ranges up to 200mm

- Robust resin-crete encapsulation
- ABS & marine glass fibre casings
- Watertight socket & armoured cable options
- Dual LED indication
- Fully adjustable sensitivity
- Remote coil options



Non-Flush Series 2100



Flush Series 2200

AN INTRODUCTION TO MODULOC SENSORS

Inductive proximity sensors purpose built for installation in the harshest of industrial environments. Ideal devices for mounting flush or slightly below the floorpan of roller tables and other conveyor systems.

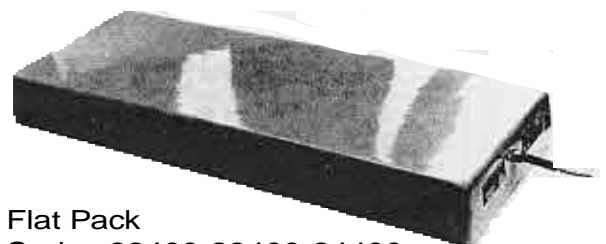
The combination of large sensing distances with base mounting onto or embedded in steel surround allows their installation with complete physical protection. Available in a wide variety of configurations, these sensors offer a very practical solution to the detection of metal product, regardless of its shape and size.

The Integral sensors are available with a variety of base plates or fixing bolts to ensure straightforward installation and allow replacement of old line equipment. The Flat pack detectors allow the user to specify the required length of detector to suit the roller bed width whilst remote controllers facilitate safe access.

Available in AC and DC formats for direct feedback to PC systems, whilst at the same time capable of switching large contactor relays.



Semi-Flush Series 2300

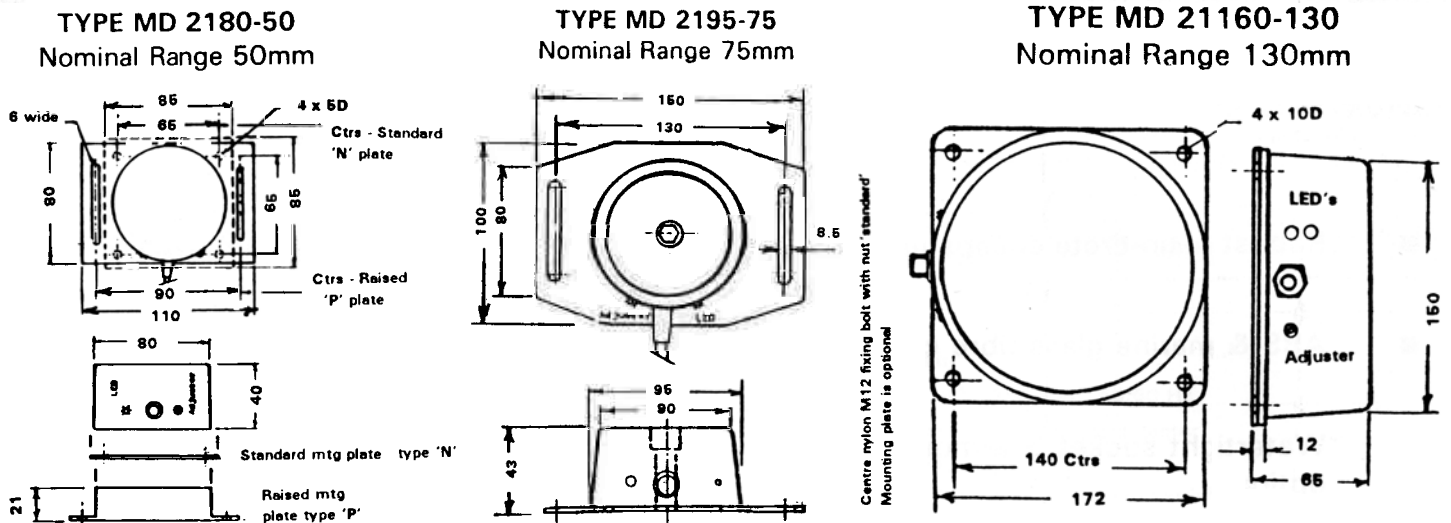


Flat Pack
Series 22400-23400-24400
Length to client Requirements

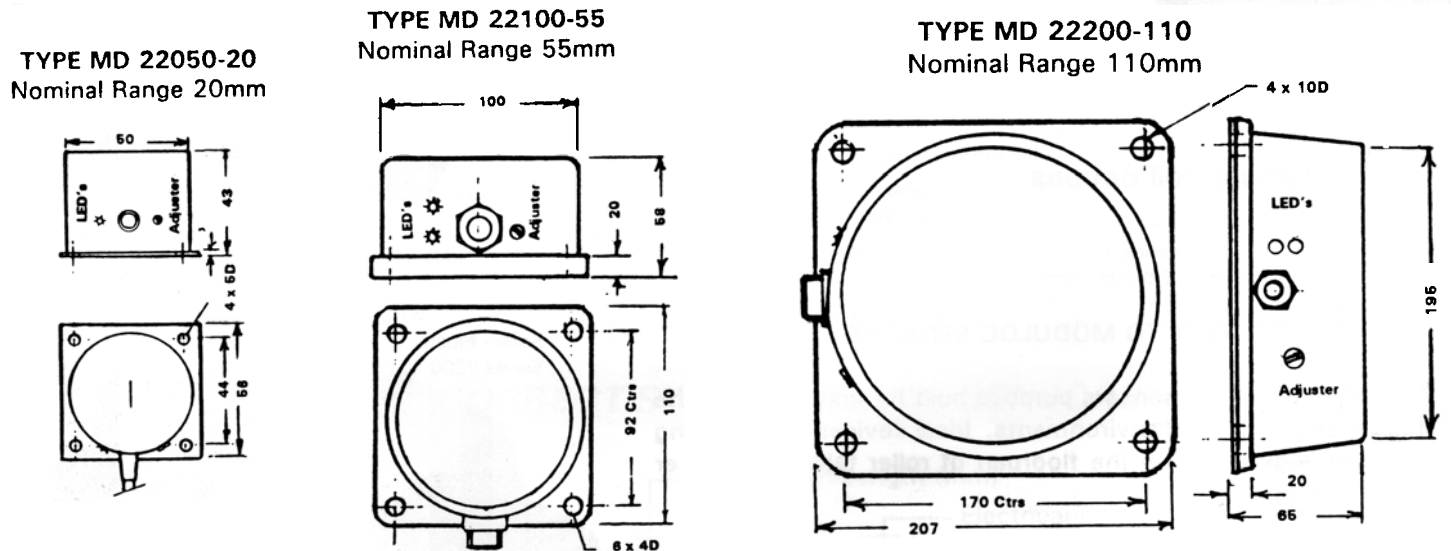
SELECTION GUIDE

Four mounting styles are available in a variety of sizes & sensing ranges to enable the user to select exactly the correct coil to suit installation requirements. Apart from selecting the correct detector for the roller table width, consideration should be taken as to the effective range relative to product size. See back page graph.

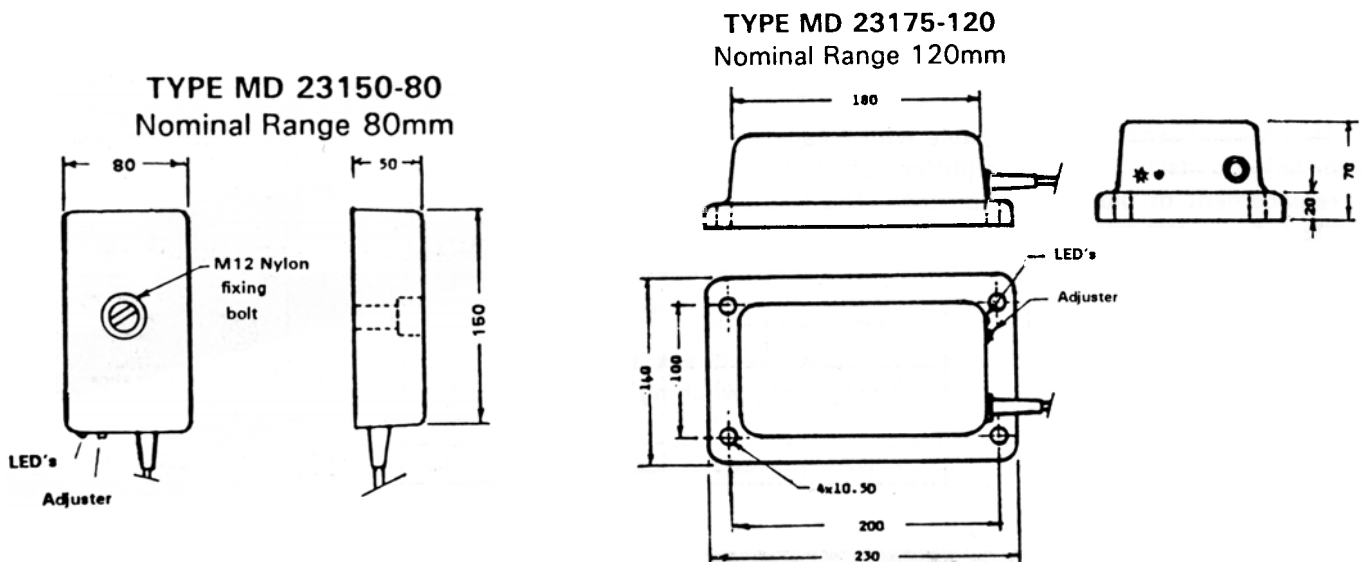
NON-FLUSH MD2100 MODELS (For mounting onto metalwork)



FLUSH MD2200 MODELS (For mounting embedded in metalwork)



SEMI-FLUSH MD2300 MODELS (For mounting surrounded by metalwork)



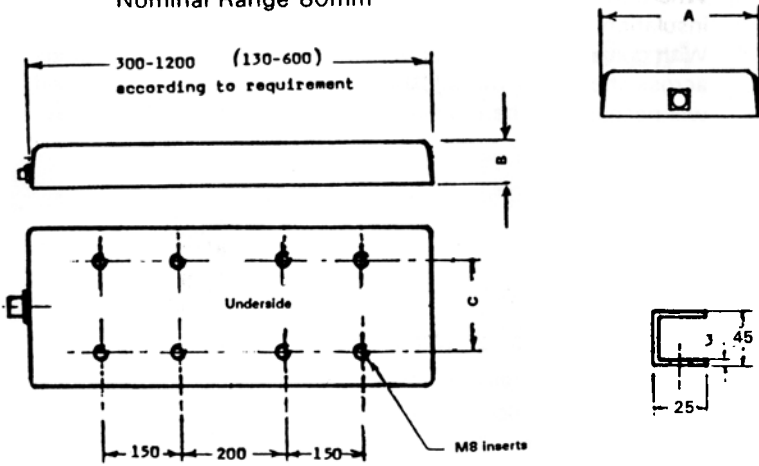
DETECTORS IN PURPOSE BUILT LENGTHS

As a general guideline, at least 20% of the coil length should have product passing over it within 70% of the established effective range for product being detected.

For further details refer to graph on back page.

FLAT PACK DETECTORS MD 22400 - 23400 - 24400

TYPE MD 22400 - 23400 - 24400
Nominal Range 80mm

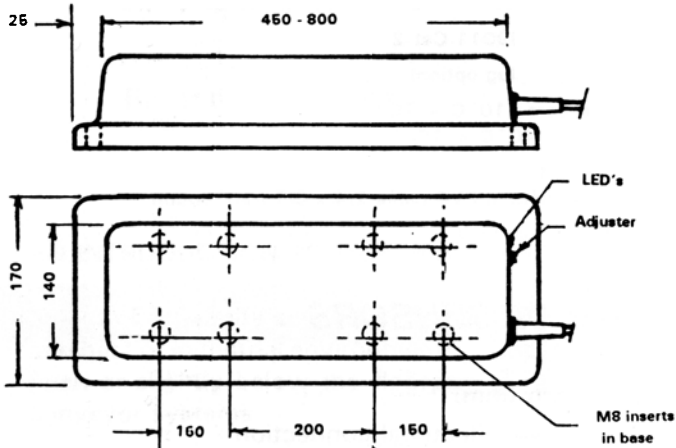


TYPE	NOMINAL RANGE	DIMENSIONS		
		A	B	C
MD22400	100	130	42	80
MD23400	140	180	87	120
MD24400	200	300	82	150

May be supplied with 2 lengths of aluminium 'U' Channel according to mounting framework with 8D holes as base place centres

EXTENDED RANGE DETECTOR MD26400-150

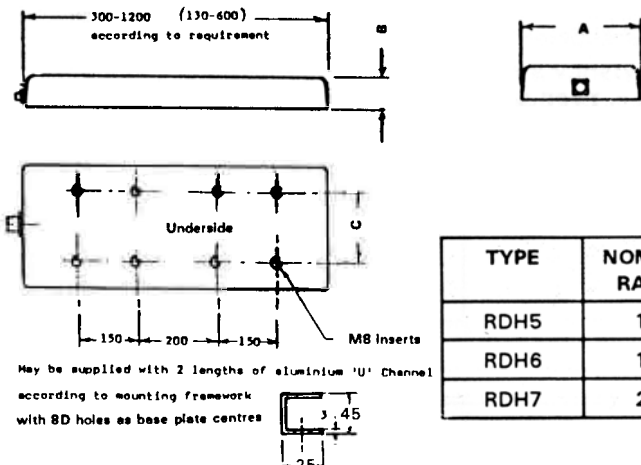
TYPE MD 26400-150



This particular sensor provides the user with a proportionally greater range relative to size of coil and at the same time enables mounting safely within steel metalwork adjacent to the base configuration.

REMOTE DETECTOR COILS RDH5 - RDH6 - RDH7

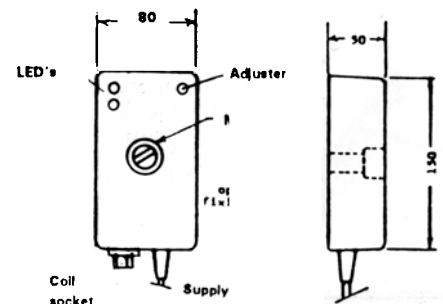
REMOTE COILS RD 5 - 6 - 7



May be supplied with 2 lengths of aluminium 'U' Channel according to mounting framework with 8D holes as base plate centres

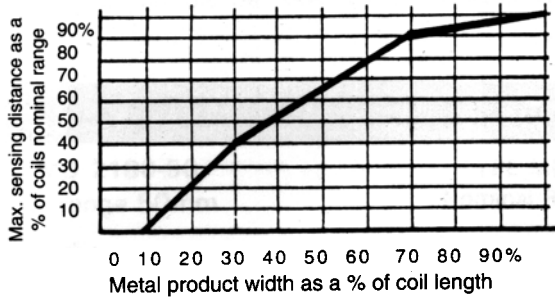
TYPE	NOMINAL RANGE	DIMENSIONS		
		A	B	C
RDH5	100	130	42	80
RDH6	140	180	87	120
RDH7	200	300	82	150

RCA 2/3
REMOTE CONTROLLERS



SENSING RANGE PERFORMANCE

Establishing sensing range relative to product size



As a general guideline, at least 20% of coil length should have product passing over it within 70% of the established effective range for product being detected.

Material correction factors (sensing distance):-

Fe - 1.0, CrNi - 0.85, A1 - 0.5, Cu - 0.46, Brass - 0.54

Where the material is expected to be above 100°C., ceramic insulation should be placed across the top face of the sensor. With guidance, it is practical to protect coils with steel straps across the top of the sensor. Sensors mounted end to end will necessitate the utilisation of alternate frequency units.

ENCAPSULATION MATERIAL:

Polyurethane resin

SUPPLY VOLTAGE:

12 to 30 VDC / 80 - 250 VAC 50/60 Hz

SWITCHING FREQUENCY:

5 Hz to 40 Hz according to size of detector

SHORT CIRCUIT PROTECTION (AC Types):

2180, 2195 & 22050 - 350 mA

Other 2 wire models - 800 mA option available

SHORT CIRCUIT PROTECTION (DC Types):

450 mA

MIN LOAD (2 wire AC types):

2180, 2195 & 22050 - 7 mA

Other 2 wire models - 1 mA option available

LEAKAGE CURRENT at 110V AC (2 wire AC):

2180, 2195 & 22050 - 5 mA / Other Models - 2 mA

VOLTAGE DROP at 110V AC (2 wire AC type):

2180, 2195 & 22050 - 30 mA load/16V - 220 mA load/21V

Other models - 300 mA load/10V (option type)

VIBRATION & SHOCK RESISTANCE:

Better than DIN 89011 Cat 2

WATERTIGHT SPECIFICATION:

IP66 (Casing & plug option)

OPERATING TEMPERATURE RANGE:

Integral sensors - 10°C + 70°C

Remote coils - 40°C + 100°C

SUPPLY CONNECTION CABLE:

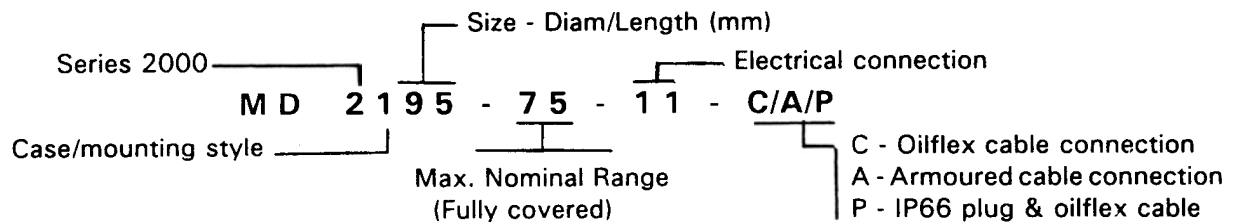
1.5 metres oilflex 2/4 x 0.5 mm² standard

1.5 metre armoured PVC cable 2/4 x 0.7 mm² option

COIL CONNECTION CABLE:

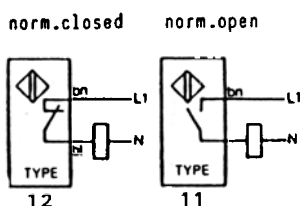
2 metres of coaxial cable

SPECIFYING THE CORRECT TYPE AND SIZE DETECTOR

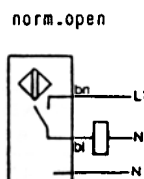


ELECTRICAL CONNECTION DATA

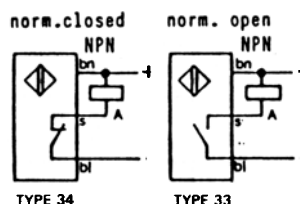
TYPE 11 - 2 WIRE AC (standard)
TYPE 71 - 2 WIRE AC (Option rated)



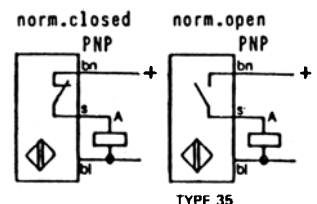
TYPE 13 - 3 WIRE AC



TYPE 33 - 3 WIRE DC



TYPE 35 - 3 WIRE DC



Moduloc® Controls Limited

Quadrant House, 235 High Street, London Colney, St. Albans, Herts. AL2 1HD
Tel: 44 (0) 1727 821313 (2 lines) Fax: 44 (0) 1727 826804

The information presented herein is, to the best of our knowledge, accurate. However, please ensure that this information has not been amended or superseded