



UNO MINDA

NK MINDA GROUP

THINK. INSPIRE. FLOURISH



Electronics and Sensors Product Catalogue



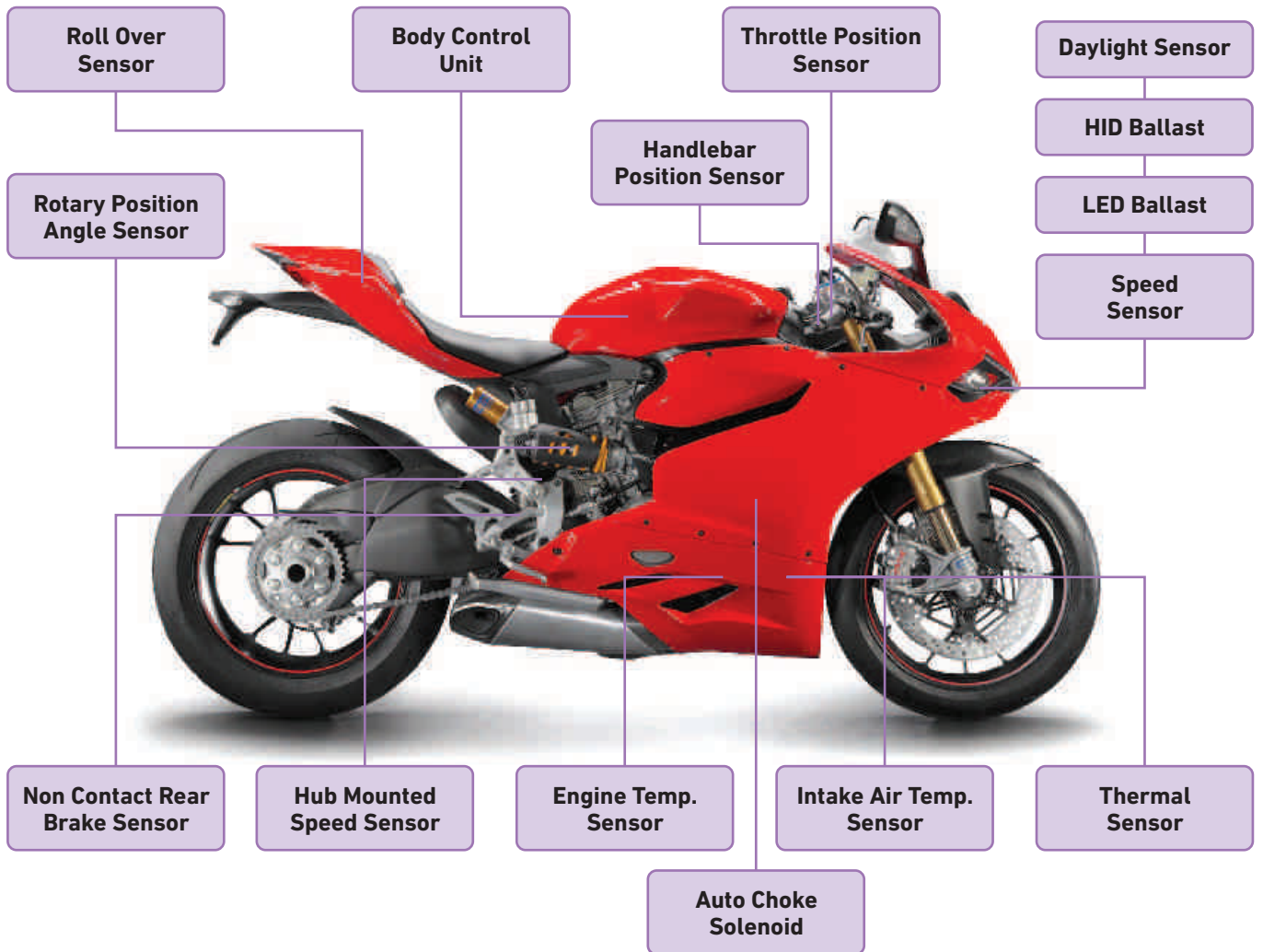
Minda Distribution and Services Limited (MDSL) today is one of the leading companies in Automobiles Aftercare market.

It was formed with the core objective of creating a distribution network in the country, spanning a wide range of products & services in the auto parts aftermarket.

Our objective at MDSL is to develop and implement strategies to build and sustain the UNO MINDA brand equity, and to achieve increasing levels of market penetration, sales and market share for the product range.

MDSL focuses on bringing new products into the aftermarket. Presently we are aiming to launch various types of sensors for 2W & 4W vehicles. These will provide the aftermarket with reliable and cost effective solutions. In this catalogue, we present you the current range of products in the category of sensors.

This catalogue is intended to serve as Ready Reckoner and as a handy reference tool. We do hope you find it to be useful, and would be happy to respond to any queries from your side, which may be addressed to queries@mindadsl.com





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SENSORS for 2 Wheelers

Roll Over Sensor

Application:

Roll Over Sensor automatically stops the engine in case of vehicle roll over.

Features:

- Long life – Hall Effect Sensor.
- Diagnostics mode.
- Protected Output.
- Reverse polarity protection.
- Transient protection – ISO 7637-2
- Sealed design - IP 69K
- Single screw mounting
- Precise sensing
- Qualified for Automotive application

Body Control Unit

Application:

Features:

- Solid state switching using Contact less switch
- Self Cancellation Blinker
- Proportional analog load current sense
- Illumination in Handle Bar functions.
- Flasher frequency doubles with one bulb outage.
- Intelligent Switch over to high / low lamp in case of shorting of load

Handlebar Position Sensor

Application:

Use to auto cancel of blinker after turn is complete.

Features:

- Accurate angle sensing & auto cancel Blinker.
- Eliminate flasher relay
- Protected out put
- Non contact type

HID Ballast

Application:

To enhance head light efficiency by use of HID lighting system, which will consume less power & save fuel.

Features:

- Better Visibility for driver
- Natural Day Light Effect.
- Cool Light.
- Major energy saving.
- Life time as long as vehicle.
- Improved visibility of driver oncoming vehicle

Engine Temp. Sensor

Application:

- To sense the engine & oil temperature and give feedback to ECU or auto choke
- Temperature detection for motorcycles

Features:

- Sealed design – IP 67.
- Robust design.
- Thermistor technology.
- Fast response to temperature.

Hub Mounted Speed Sensor

Application:

These sensors are mounted in Two Wheeler front wheel hub to sense the vehicle speed and give the output to instrument cluster.

Features:

- Digital current sinking outputs (Open collector).
- Excellent low speed performance.
- Wide range of operating temperature.
- Simple construction easy to assemble.

Intake Air Temp. Sensor

Application:

To sense the air temperature and give feedback to ECU

Features:

- Sealed design.
- Design for manufacturability.
- Robust design.
- Thermistor technology.
- Fast response to temperature.
- Isolated to ground.

SENSORS for 2 Wheelers



KT-1710
Body PCB Assy. with Holder
PLSR 150,
PLSR 180 (UG3)



KT-1710A
Body Magnet Assy.
PLSR 150,
PLSR 180 (UG3)



KT-1710K-E01
Magnet Assy. for Self Cancellation
PLSR 150,
PLSR 180



MI-7664
Body Control Unit
PLSR 150/180 (UG3)



MI-7664F
Body Control Unit
PLSR 220 F



MI-7664H-E01
Switch - Body Control Unit
PLSR 150,
PLSR 180



MI-7664J-E01DC
Body Control Unit with Sealed Coupler
PLSR 220 S,
PLSR 220 F



MI-7674C-P01
Roll Over Sensor
Piaggio & C. SPA 2 Wh



MI-7674D-P01
Tilt Sensor
Piaggio & C. SPA
2Wh



MI-7686A-E01
Engine Temperature Sensor (M10)
PLSR 220 S,
PLSR 220 F



MI-7686C-E01
Coolant Water Temperature Sensor
KTM



MI-7686E-E01
Thermal Sensor
DSVR 100, 125, 135



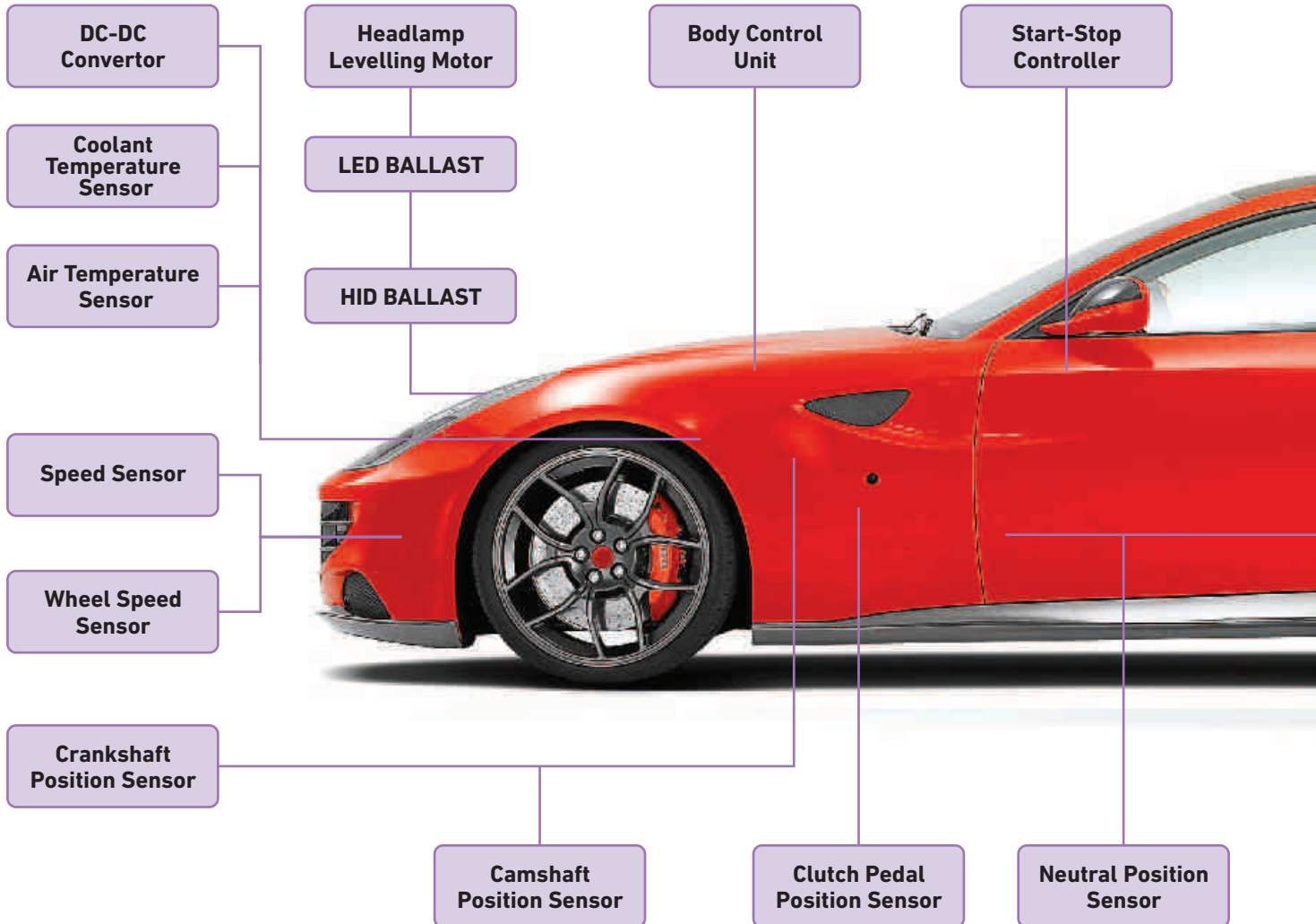
MI-7687C-E01
Speed Sensor - Hub Mounted
PLSR 150, Pulsar180,
PLSR 200, PLSR 220



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SENSORS for 4 Wheelers





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SENSORS for 4 Wheelers



CNG/ Fuel Cap
Sensor

Fuel Pump
Controller

Electronic Accelerator
Pedal Module



Headlamp Levelling Motor

Application:

Head Lamp Leveling Motor is an Actuator, Used to position the headlamp level to adjust Head Lamp beam angle on road.

Features:

- Highly reliable.
- Low noise.
- Sealed coupler.
- Automotive Protections.
- Adjustable Shaft.
- Wheel type mechanism for fast manual adjustment.

Body Control Unit

Application:

Features:

- Solid state switching using Contact less switch
- Self Cancellation Blinker
- Proportional analog load current sense
- Illumination in Handle Bar functions.
- Flasher frequency doubles with one bulb outage.
- Intelligent Switch over to high / low lamp in case of shorting of load

Speed Sensor - Contact Type

Application:

TYPE : Contact type – Transmission mounted
This sensors are mounted in transmission box to sense the vehicle speed and give the output to instrument cluster and engine control unit.

Features:

- Digital current sinking outputs.
- Excellent low speed performance.
- Reverse polarity protection, Output short circuit protection & Over voltage protection provided.
- Wide range of operating temperature.
- Simple construction easy to assemble.

Speed Sensor - Non Contact Type

Application:

- This sensors are measure the transmission speed (sense the gear tooth wheel) and give the output to instrument cluster and engine control unit.
- Suitable for heavy duty vehicles & Automobiles.

Features:

- Non contact type (Hall IC based)
- Sealed design.
- Bi- directional mode of operation.
- Protected Square wave output.
- Transmission mounted.

DC-DC Converter

Application:

DC-DC Converter gives out a Regulated Voltage from Variable Battery Voltage.

Features:

- Perfect Regulation: Precise Output regulation of $\pm 1\%$ will provide a regulated power supply to all the electronic equipment in the vehicle
- High Efficiency: More than 90% Efficiency will increase the battery life and reduces the heat dissipation.
- Low Current Consumption: To increase the battery life, the converter was designed to consume Less than 5mA of input current.
- Short Circuit Protection : To provide safety to the battery, Short Circuit protection provided in the Out put of converter.
- Over Load Protection: To Stop Over loading in the battery ,converter shuts off the Output when the excess load is connected.
- Input Protection : To Stop the battery drain, due to low battery Operation, Low voltage shut off provided in the converter .

HID Ballast

Application:

To enhance head light efficiency by use of HID lighting system, which will consume less power & save fuel.

Features:

- Better Visibility for driver
- Natural Day Light Effect.
- Cool Light.
- Major energy saving.
- Life time as long as vehicle.
- Improved visibility of driver oncoming vehicle

Crankshaft & Camshaft Sensor

Application:

- To detect rotating position of Camshaft for motorcycles & automobiles.
- To detect rotating position of Crankshaft for motorcycles & automobiles.

Features:

- Non contact type.
- High reliability, No moving parts
- Zero speed detection (TPOS)
- Sealed design
- Single screw mounting
- Suitable for High temperature.

Neutral Position Sensor

Application:

- To accurately detect Neutral Gear Position of vehicle and provide protected output signal (PWM) to ESS ECU.
- To give output signal when Clutch Pedal is operated.

Features:

- Non Contact Type
- Sealed design - IP67
- Adjustment for play in assembly on Vehicle
- Life enhanced to 10 lac. Cycles
- Short Circuit Protected Output
- Fast Response
- Active Sensor
- Automotive Protection – ISO7637.-2

Temperature Sensor

Application:

To sense the engine & oil temperature and give feedback to ECU

Features:

- Sealed design IP 67
- Robust design
- Thermistor technology
- Fast response to temperature
- Isolated to ground
- Accuracy – 2%

Intake Air Temp. Sensor

Application:

To sense the air temperature and give feedback to ECU

Features:

- Sealed design.
- Design for manufacturability.
- Robust design.
- Thermistor technology.
- Fast response to temperature.
- Isolated to ground.

Coolant Temp. Sensor

Application:

To sense the coolant temperature and give feedback to ECU.

Features:

- Sealed design.
- Design for manufacturability.
- Robust design.
- Thermistor technology.
- Fast response to temperature.
- Isolated to ground.

Door Safety Sensor

Application:

Use to inform proper door closure of bus to driver.

Features:

- Non-contact type
- Sealed design
- Adjustment for play in assembly on Vehicle
- Life enhanced to 10 lacs cycles
- Fast Response

Sensors - 4 Wheeler



TD-1001
Temperature Sensor
Maruti Suzuki 800 CC



TD-1002
Temperature Sensor
Maruti Suzuki Omni
(New Model)



TD-1003
Temperature Sensor with Wire
Maruti Suzuki Omni



TD-1004
Temperature Sensor
Tata Motors Sumo/
Mobile 207/ 407/ 608/
1210



TD-1005
Temperature Sensor
FIAT Premier Padmini



TD-1006
Temperature Sensor
Hindustan Motors
Ambassador



TD-1007
Temperature Sensor
M & M 540 JEEP



TD-1008
Temperature Sensor
Maruti Suzuki Zen



TD-1010
Temperature Sensor
M & M Di Tractor



TD-1011
Temperature Sensor
Mahindra AVL



TD-1012
Temperature Sensor
Massey Ferguson
Tractor



TD-1013
Temperature Sensor
Maruti Esteem/ 1000CC



TD-1017
Water Thermo Temperature Sensor
Maruti Suzuki Mphi-800,
Alto, WagonR, Esteem,
Zen



TD-1018
Water Thermo Temperature Sensor
Maruti Zen, Baleno,
Altura



TD-1019
Air Intake Sensor
Maruti Mphi-800, Omni
Van, WagonR, Esteem,
Zen, Baleno, Altura



TD-1026
Temperature Sensor Heater Timer (Blue Coupler)
Tata Indica (New Model)
TD-1025 (Black Coupler)
Tata Indica (Old Model)

Sensors - 4 Wheeler



TD-1027
Water Thermo
Temperature Sensor
Hyundai Santro



TD-1031
Temperature Sensor
Ford Motors Tractor



TD-1032
Temperature Sensor
Ashok Leyland HCV



TD-1033
Temperature Sensor
Eicher Motors HCV



TD-1034
Temperature Sensor
Tata Motors Turbo (TC)



TD-1035
Water Thermo
Temperature Sensor
With Threading
Ford Ikon 1.3



TD-1036
Water Thermo
Temperature Sensor w/o
Threading
Ford Ikon 1.6



TD-1038
Thermo Water
Temperature Sensor
Hyundai Accent



TD-1043
Temperature Sensor
Daewoo Matiz /Cielo



TD-1044
Temperature Sensor
Fiat Uno



TD-1045
Temperature Sensor
(Pricol Type)
Hindustan Motors RTV



TD-1046
Temperature Sensor
(V3 type)
Hindustan motors RTV



TD-1048
Temperature Sensor
Fiat Siena



TD-1049
Temperature Sensor
w/o Wire
M & M Scorpio
after 2003



TD-1050
Temperature Sensor
with Wire
M & M Scorpio
before 2003



TD-1051
Temperature Sensor
Ford Ikon

Sensors - 4 Wheeler



TD-1052
Temperature Sensor
Tata Indigo



TD-1053
Temperature Sensor
Toyota Qualis



TD-1069
Water Thermo
Temperature Sensor
Tata Indigo Petrol (Mphi)



TD-1070
Temperature Sensor
Tata Indigo Diesel



TD-1075
Temperature Sensor
Tata Indica Xeta (Petrol)



TD-1076
Water Thermo
Temperature Sensor
Maruti Suzuki Swift



TD-1091
Temperature Sensor
Toyota Innova



TD-1092
Temperature Sensor
Chevrolet Tavera



TD-1096
Thermo Water
Temperature Sensor
Tata ACE Cng/ Tata Veh.
BS III



MI-7686K-E01
Air Temperature Sensor
M&M Maxximo



MI-7687F-E01
(White Body)
Vehicle Speed Sensor
(Contact Type)
M&M Scorpio Mdi, M-Hawk,
Xylo-Mustang, M-Eagle;
Bolero- All Model



MI-7688C-E01
Neutral Position Sensor
M&M Scorpio / Bolero



MI-7688D-E01
Magnet Holder
Assembly
M&M Scorpio / Bolero



MI-7688N-E01
Neutral Position Sensor
M&M XUV500



MI-7689P-E01
Clutch Pedal Position
Sensor
M&M Xylo



MI-7689Q-E01
Clutch Pedal Position
Sensor
M&M Scorpio

2 WHEELER

PART NO.	DESCRIPTION	MRP ₹
KT-1710	BODY PCB ASSEMBLY WITH HOLDER FOR PLSR 150/ 180 (UG3)	162.00
KT-1710A	BODY MAGNET ASSEMBLY FOR PLSR 150/ 180 (UG3)	39.00
MI-7664	BODY CONTROL UNIT FOR PLSR 150/ 180 (UG3)	1432.00
MI-7664F	BODY CONTROL UNIT FOR PLSR 220F	
MI-7664H-E01	BODY CONTROL UNIT (BLACK COLOUR) FOR PLSR 150CC,180CC UG4	1432.00
MI-7664J-E01	BODY CONTROL UNIT DC WITH SEALED COUPLER (BROWN COLOUR) FOR PLSR 220S, 220F UG4	1432.00
MI-7674A-E01	ROLL OVER SENSOR FOR ROYAL ENFIELD BULLET	262.00
MI-7686A-E01	ENGINE TEMPERATURE SENSOR (M10) FOR PLSR 220S, 220F	132.00
MI-7686C-E01	COOLANT WATER TEMPERATURE SENSOR FOR KTM	196.00
MI-7686E-E01	THERMAL SENSOR FOR DSVR 100, 125, 135	82.00
MI-7686H-E01	THERMAL SENSOR (HIGH TEMP. SOLDER) FOR PLSR 220S, PLSR 220F	83.00
MI-7687C-E01	SPEED SENSOR -HUB MOUNTED FOR PLSR 150,180,200 & 220CC	325.00

4 WHEELER

Part No.	DESCRIPTION	MRP ₹
TD-1001	TEMP. SENSOR FOR MARUTI 800CC	74.00
TD-1002	TEMP. SENSOR FOR MARUTI OMNI N/M	132.00
TD-1003	TEMP. SENSOR FOR MARUTI OMNI WITH WIRE	156.00
TD-1004	TEMP. SENSOR FOR TATA SUMO MOBILE 207/407/608/1210	120.00
TD-1005	TEMP. SENSOR FOR PREM. PADMINI (FIAT)	127.00
TD-1006	TEMP. SENSOR FOR AMBASSADOR	127.00
TD-1007	TEMP. SENSOR FOR MAHINDRA 540 JEEP	128.00
TD-1008	TEMP. SENSOR FOR MARUTI ZEN	136.00
TD-1010	TEMP. SENSOR FOR MAHINDRA DI TRACTOR	127.00
TD-1011	TEMP. SENSOR FOR MAHINDRA AVL	202.00
TD-1012	TEMP. SENSOR FOR M.F.TRACTOR (MASSEY)	166.00
TD-1013	TEMP. SENSOR FOR MARUTI ESTEEM/1000CC	175.00
TD-1017	WATER THERMO TEMP. SENSOR FOR MARUTI MPFI-800, ALTO,WAGON R, ESTEEM, ZEN.	595.00
TD-1018	WATER THERMO TEMP. SENSOR FOR MARUTI ZEN, BALENO, ALTURA.	785.00
TD-1019	AIR INTAKE SENSOR FOR MARUTI MPFI-800 ,VAN, WAGON R, ESTEEM, ZEN, BALENO, ALTURA.	785.00
TD-1025	TEMPERATURE SENSOR HEATER TIMER FOR INDICA O/M (BLACK)	240.00
TD-1026	TEMPERATURE SENSOR HEATER TIMER FOR INDICA N/M (BLUE)	249.00
TD-1027	WATER THERMO TEMPERATURE SENSOR FOR SANTRO	770.00
TD-1031	TEMPERATURE SENSOR FOR FORD TRACTOR	179.00
TD-1032	TEMPERATURE SENSOR FOR ASHOK LEYLAND	201.00
TD-1033	TEMPERATURE SENSOR FOR EICHER	154.00
TD-1034	TEMPERATURE SENSOR FOR TATA TURBO (TC)	168.00
TD-1035	WATER THERMO TEMP. SENSOR WITH THREADING FOR FORD IKON 1.3	703.00
TD-1036	WATER THERMO TEMP. SENSOR W/O THREADING FOR FORD IKON 1.6	703.00
TD-1038	THERMO WATER TEMP. SENSOR FOR ACCENT	780.00

PART NO.	DESCRIPTION	MRP ₹
TD-1043	TEMP. SENSOR FOR MATIZ /CIELO	154.00
TD-1044	TEMP. SENSOR FOR FIAT -UNO	228.00
TD-1045	TEMP. SENSOR HM-RTV (PRICOL TYPE)	161.00
TD-1046	TEMP. SENSOR HM-RTV (V3 TYPE)	146.00
TD-1048	TEMP. SENSOR FOR FIAT-SIENA	223.00
TD-1049	TEMP. SENSOR SCORPIO W /O WIRE AFTER 2003	150.00
TD-1050	TEMP. SENSOR SCORPIO WITH WIRE BEFORE 2003	332.00
TD-1051	TEMP. SENSOR FOR FORD ICON	372.00
TD-1052	TEMP. SENSOR FOR INDIGO (WHITE COUPLER)	187.00
TD-1053	TEMP. SENSOR FOR QUALIS	244.00
TD-1069	WATER THERMO TEMP.SENSOR INDIGO PETROL(MPFI)	551.00
TD-1070	TEMPERATURE SENSOR INDIGO DIESEL	250.00
TD-1075	TEMP. SENSOR FOR INDICA XETA (PETROL)	240.00
TD-1076	WATER THERMO TEMP.SENSOR FOR MARUTI SWIFT	605.00
TD-1091	TEMP.SENSOR FOR TOYOTA INNOVA	483.00
TD-1092	TEMP.SENSOR FOR CHEVROLET TAVERA	156.00
TD-1096	THERMO WATER TEMP. SENSOR FOR TATA ACE CNG/ TATA VEH. BS III	617.00
MI-7686K-E01	AIR TEMPERATURE SENSOR FOR MAHINDRA BOLERO MAXXIMO	267.00
MI-7687F-E01	SPEED SENSOR (CONTACT TYPE) WHITE BODY FOR MAHINDRA SCORPIO MDI, M HAWK , XYLO MUSTANG , M-EAGLE & BOLERO (ALL MODELS)	311.00
MI-7688C-E01	NEUTRAL POSITION SENSOR FOR MAHINDRA SCORPIO & BOLERO	220.00
MI-7688N-E01	NEUTRAL POSITION SENSOR FOR MAHINDRA XUV500	492.00
MI-7689A-E01	CLUTCH PEDAL SENSOR FOR MAHINDRA XUV500	260.00
MI-7689P-E01	CLUTCH PEDAL SENSOR FOR MAHINDRA XYLO	262.00
MI-7689Q-E01	CLUTCH PEDAL SENSOR FOR MAHINDRA SCORPIO	305.00
MI-7690A-E01	DOOR SAFETY SWITCH FOR ASHOK LEYLAND	1224.00

UNDER DEVELOPMENT - 2W

MAGNET ASSEMBLY FOR SELF CANCELLATION FOR PLSR 150/ 180 (UG3)

ROLL OVER SENSOR PIAGGIO R.C. SPA

TILT SENSOR PIAGGIO R.C. SPA

THROTTLE POSITION SENSOR

HID BALLAST

LED BALLAST

ROTARY POSITION ANGLE SENSOR

UNDER DEVELOPMENT - 4W

ELECTRONIC ACCELERATOR PEDAL

HID KIT

MAGNET HOLDER ASSEMBLY FOR MAHINDRA AND MAHINDRA SCORPIO/ BOLERO

CLUTCH PEDAL POSITION SENSOR

START-STOP CONTROLLER



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