



Product / Technical Information

# THERMOSTATS, THERMOSWITCHES & TEMPERATURE SENDER UNITS OPTIMUM PERFORMANCE



# HELLA THERMOSTATS

The automotive thermostat is used in the cooling system of an engine cooled by liquid or air. It is used as a valve that directs the engine's liquid flow to the radiator.

## Dear customer:

This HELLA brochure provides a technical / specification overview of Thermostats, Thermostiches and Temperature Sender Units.

Information is reflected in a simplified manner in order to ensure ease of understanding. The brochure is divided into three actions. Each section provides an overview, followed by more detailed, part specific information.

We trust you will find this brochure informative.

**Your HELLA Automotive  
South Africa Team**

## HELLA THERMOSTATS

Allows fast heating of the engine (the thermostat remains closed while the engine is cool).

Keeps the engine operating between the designed temperature limits (after the thermostat is active).

## ADVANTAGES:

- Reduce friction and extend the engine's life.
- Reach the maximum torque and power.
- Avoid excessive fuel consumption.
- Avoid high levels of emission.
- Minimise fuel consumption and pollutant emission.

## FUNCTIONING

The thermostat uses a petroleum-refined thermo-expansive wax that is calibrated according to specification. With the increase of temperature, the wax expands inside the thermo-element, causing the displacement of the stainless steel pin, compressing the spring and opening the valve, which allows the passage of the liquid to the radiator.

## LOCATION

Generally near the engine and the upper hose that runs from the radiator.

## OPERATING TEMPERATURE

The initial opening temperature is encoded in all types of thermostats.

Example: 288.80.

In consideration of the tolerance deviation of  $\pm 2^{\circ}\text{C}$ , in this case the thermostat starts to open between  $78^{\circ}\text{C}$  and  $82^{\circ}\text{C}$ , and should be completely opened at  $95^{\circ}\text{C}$ , with a course or displacement of at least 8 mm.

## WHEN IT DOES NOT WORK

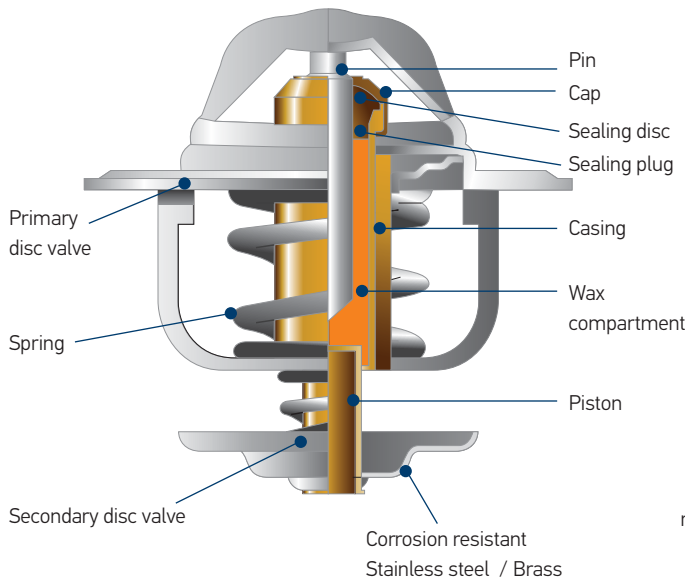
- Opened: High fuel consumption and pollutant emission, low power and torque.
- Closed: Causes the engine to overheat, burning the cylinder's head gasket, warping the cylinder's head.

## MAINTENANCE

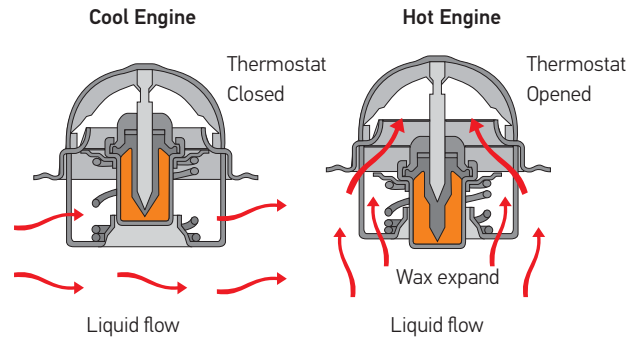
Important actions when changing the thermostat:

- Always use a new gasket or seal ring.
- Bleed the air (remove air bubbles) from the cooling system.
- Check for leaking after the repair.

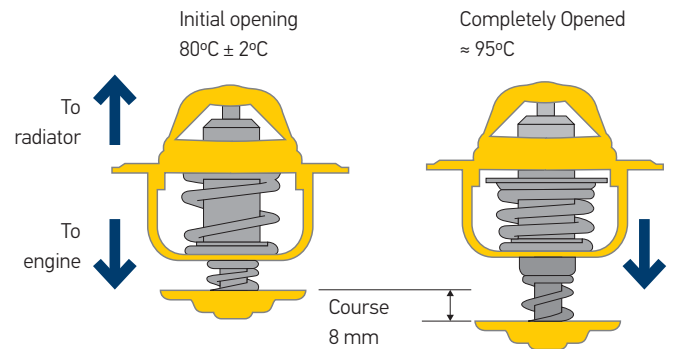
## MAIN COMPONENTS



Double-valve automotive engine cooling thermostat



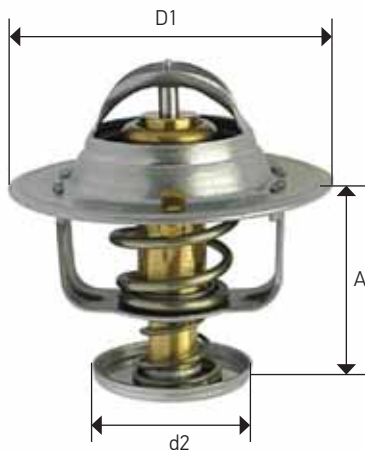
For example only - temperature according to individual thermostats



→ Do not use the vehicle without a thermostat, because the engine will always operate, causing failures, excessive fuel consumption and increased emissions.

### GASKET

All products with the prefix "VT" in the short code include a gasket.



D1: Diameter primary disc valve (mm)  
d2: Diameter secondary disc valve (mm)  
A: Distance of piston stroke (Course) (mm)





### MAINTENANCE

- Ensure that correct thermostat is matched to correct vehicle model specification.
- Never perform maintenance repair while the cooling system is hot. There is a great risk of burning injury.
- Immediately park vehicle in a safe place and turn engine off, if there is evidence of excessive temperature.
- Check the cooling fluid level weekly, with the engine cold.
- Always use the specified cooling fluid and the correct rating.
- Do not top-up the cooling system with pure water. This will dilute the ethylene glycol concentration.
- Any reduction in the cooling fluid level indicates leaks in the cooling system.
- Perform preventive maintenance of thermostats every 30 000 Km.

### DIAGNOSTIC (Valve's test)

- Place the thermostat into a container with ethylene glycol based liquid and heat carefully (Do not allow the thermostat to touch the bottom of the container.)
  - Observe the thermostat operation, while using a thermometer and stirring the liquid for better temperature uniformity.
  - After 15 minutes (with a temp. above 100° C), remove the thermostat and note if it is completely open.
- Important:** This test applies only to the valve's operation. A more detailed study, such as the assessment of the opening temperature, should be conducted with specific equipment in a suitable environment.

### LEGEND

-  Temperature at which thermostat starts to open.
-  Thermostat can be used for trucks.
-  Gasket included
-  Offset valve.

# HELLA THERMOSTAT RANGE



D1	54
A	28
d2	30



D1	57
A	20
d2	-

Short Code	VT205.75
Part Number	2MT-002644-011
Temperature	75 °C
Specification	Gasket
Application	LAND ROVER

Short Code	206.75
Part Number	2MT-002603-011
Temperature	75 °C
Specification	Jiggle Pin
Application	CITROËN   PEUGEOT

Short Code	206.82
Part Number	2MT-002609-011
Temperature	82 °C
Specification	Jiggle Pin
Application	CITROËN   PEUGEOT



D1	54
A	23
d2	-

Short Code	207.82
Part Number	2MT-002570-011
Temperature	82 °C
Specification	Hole
Application	GM   MAN

Short Code	207.87
Part Number	2MT-002580-011
Temperature	87 °C
Specification	Hole
Application	AUDI   FIAT   JEEP   OPEL   SEAT   SKODA   VW

Short Code	207.92
Part Number	2MT-002617-011
Temperature	92 °C
Specification	Hole
Application	GM   OPEL



D1	48
A	18.5
d2	-



D1	54
A	23
d2	-

Short Code	VT217.82
Part Number	2MT-002572-011
Temperature	82 °C
Specification	Gasket
Application	CHEVROLET   OPEL

Short Code	VT217.92
Part Number	2MT-002620-011
Temperature	92 °C
Specification	Gasket
Application	GM   OPEL

Short Code	VT218.74
Part Number	2MT-002571-011
Temperature	74 °C
Specification	Gasket - Jiggle Pin
Application	JAGUAR   LAND ROVER











D1	54
A	35.7
d2	27








Short Code	220.76
Part Number	2MT-002606-011
Temperature	76 °C
Specification	Jiggle Pin - Valve
Application	MITSUBISHI







Short Code	220.82
Part Number	2MT-002611-011
Temperature	82 °C
Specification	Jiggle Pin - Valve
Application	MITSUBISHI








Short Code	220.88
Part Number	2MT-002599-011
Temperature	88 °C
Specification	Jiggle Pin - Valve
Application	FORD   LAND ROVER   NISSAN

# HELLA THERMOSTAT RANGE

																				
	<table border="1"><tr><td>D1</td><td>40.3</td></tr><tr><td>A</td><td>30.3</td></tr><tr><td>d2</td><td>30</td></tr></table>	D1	40.3	A	30.3	d2	30	<table border="1"><tr><td>D1</td><td>56</td></tr><tr><td>A</td><td>35</td></tr><tr><td>d2</td><td>35</td></tr></table>	D1	56	A	35	d2	35	<table border="1"><tr><td>D1</td><td>67</td></tr><tr><td>A</td><td>25.5</td></tr><tr><td>d2</td><td>35</td></tr></table>	D1	67	A	25.5	d2
D1	40.3																			
A	30.3																			
d2	30																			
D1	56																			
A	35																			
d2	35																			
D1	67																			
A	25.5																			
d2	35																			
Short Code	VT221.82	Short Code	223.82	Short Code	226.80															
Part Number	ZMT-002589-011	Part Number	ZMT-002607-011	Part Number	ZMT-002260-011															
Temperature	82 °C	Temperature	82 °C	Temperature	80 °C															
Specification	Gasket	Specification	-	Specification	-															
Application	GM   OPEL	Application	FIAT	Application	AUDI   BMW   MERCEDES   OPEL															

													
	<table border="1"><tr><td>D1</td><td>67</td></tr><tr><td>A</td><td>25.5</td></tr><tr><td>d2</td><td>35</td></tr></table>	D1	67	A	25.5	d2	35	<table border="1"><tr><td>D1</td><td>67</td></tr><tr><td>A</td><td>25.5</td></tr><tr><td>d2</td><td>35</td></tr></table>	D1	67	A	25.5	d2
D1	67												
A	25.5												
d2	35												
D1	67												
A	25.5												
d2	35												
Short Code	VT225.80	VT225.87	VT225.92	Short Code	229.87								
Part Number	ZMT-002574-011	ZMT-002618-011	ZMT-002630-011	Part Number	ZMT-002592-011								
Temperature	80 °C	87 °C	92 °C	Temperature	87 °C								
Specification	Gasket - Jiggle Pin	Gasket - Jiggle Pin	Gasket - Jiggle Pin	Specification	Valve								
Application	AUDI   FORD   LAND ROVER MERCEDES   OPEL   PORSCHE SEAT   VW	AUDI   SKODA   VW	AUDI   SKODA   VW	Application	AUDI   VOLVO   VW								

													
	<table border="1"><tr><td>D1</td><td>67</td></tr><tr><td>A</td><td>25.5</td></tr><tr><td>d2</td><td>44</td></tr></table>	D1	67	A	25.5	d2	44	<table border="1"><tr><td>D1</td><td>54</td></tr><tr><td>A</td><td>31</td></tr><tr><td>d2</td><td>30</td></tr></table>	D1	54	A	31	d2
D1	67												
A	25.5												
d2	44												
D1	54												
A	31												
d2	30												
Short Code	VT232.70	VT232.87	Short Code	233.77*	233.88								
Part Number	ZMT-002586-011	ZMT-002614-011	Part Number	ZMT-002636-011	ZMT-002622-011								
Temperature	70 °C	87 °C	Temperature	77 °C	88 °C								
Specification	Gasket - Jiggle Pin	Gasket - Jiggle Pin	Specification	Jiggle Pin	Jiggle Pin								
Application	MAN	DAEWOO   JAGUAR   MERCEDES PEUGEOT   RENAULT   SSANGYONG VOLVO	Application	*ALTERNATIVE FOR 233.88 IN HOT TEMPERATURE ZONES	FIAT   FORD   JAGUAR LAND ROVER   MAZDA NISSAN   SAAB   VOLVO								

													
	<table border="1"><tr><td>D1</td><td>67</td></tr><tr><td>A</td><td>25.5</td></tr><tr><td>d2</td><td>43</td></tr></table>	D1	67	A	25.5	d2	43	<table border="1"><tr><td>D1</td><td>54</td></tr><tr><td>A</td><td>24.5</td></tr><tr><td>d2</td><td>27</td></tr></table>	D1	54	A	24.5	d2
D1	67												
A	25.5												
d2	43												
D1	54												
A	24.5												
d2	27												
Short Code	VT234.71	VT234.75	Short Code	235.79	235.82								
Part Number	ZMT-002643-011	ZMT-002584-011	Part Number	ZMT-002635-011	ZMT-002594-011								
Temperature	71 °C	75 °C	Temperature	79 °C	82 °C								
Specification	Gasket - Jiggle Pin	Gasket - Jiggle Pin	Specification	Jiggle Pin - Valve	Jiggle Pin - Valve								
Application	IVECO   MERCEDES	DAF   IVECO   MERCEDES	Application	ALFA ROMEO   FIAT   IVECO OPEL   RENAULT	FIAT								

**NOTE:** Only the most common applications are listed. Please check application guide for product specific reference, at [www.hella.co.za](http://www.hella.co.za)

# HELLA THERMOSTAT RANGE



D1	52
A	32.7
d2	35



Short Code	239.88
Part Number	2MT-002398-801
Temperature	88 °C
Specification	Jiggle Pin
Application	FORD



D1	52
A	23
d2	-

Short Code	VT246.82	VT246.88
Part Number	2MT-002615-011	2MT-002588-011
Temperature	82 °C	88 °C
Specification	Gasket - Jiggle Pin	Gasket - Jiggle Pin
Application	SUZUKI	FORD



D1	26.1
A	52.5
d2	-

Short Code	245.87
Part Number	2MT-002627-011
Temperature	87 °C
Specification	-
Application	AUDI   SEAT   SKODA   VW



D1	40
A	18.5
d2	-

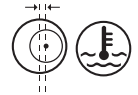
Short Code	247.75	247.86
Part Number	2MT-002598-011	2MT-002604-011
Temperature	75 °C	86 °C
Specification	Hole	Hole
Application	RENAULT	RENAULT



D1	53.5
A	23
d2	-

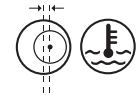


Short Code	252.82
Part Number	2MT-002624-011
Temperature	82 °C
Specification	-
Application	CITROËN   PEUGEOT



D1	52
A	34.5
d2	27

Short Code	VT253.77	VT253.88
Part Number	2MT-002582-011	2MT-002578-011
Temperature	77 °C	88 °C
Specification	Gasket - Jiggle Pin	Gasket - Jiggle Pin
Application	HONDA   ROVER	TOYOTA   VW



D1	52
A	23
d2	-

Short Code	254.75*	254.82	254.88
Part Number	2MT-002633-011	2MT-002575-011	2MT-002597-011
Temperature	75 °C	82 °C	88 °C
Specification	Jiggle Pin	Jiggle Pin	Jiggle Pin
Application	TOYOTA *ALTERNATIVE FOR 254.82 IN HOT TEMPERATURE ZONES	DAIHATSU   HONDA   HYUNDAI   KIA MAZDA   MITSUBISHI   SUZUKI   TOYOTA	CHRYSLER   DAIHATSU   FORD   HYUNDAI KIA   MAZDA   SUZUKI   TOYOTA

# HELLA THERMOSTAT RANGE

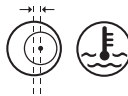


D1	48
A	34
d2	30



D1	54
A	31
d2	30

Short Code	VT256.75	VT256.82	Short Code	258.75
Part Number	2MT-002621-011	2MT-002568-011	Part Number	2MT-002608-011
Temperature	75 °C	82 °C	Temperature	75 °C
Specification	Gasket - Jiggle Pin	Gasket - Jiggle Pin	Specification	Hole
Application	NISSAN	DAIHATSU   HYUNDAI   KIA   NISSAN   TOYOTA   VW	Application	VOLVO



D1	54
A	23
d2	-



D1	44
A	18.5
d2	-

Short Code	260.82	Short Code	VT264.82	264.84
Part Number	2MT-002631-011	Part Number	2MT-002625-011	2MT-002596-011
Temperature	82 °C	Temperature	82 °C	84 °C
Specification	Jiggle Pin	Specification	Gasket - Jiggle Pin	Jiggle Pin
Application	GM   ISUZU   NISSAN   OPEL SUBARU	Application	MAZDA   NISSAN   SUBARU SUZUKI	NISSAN   SUBARU   SUZUKI



D1	54
A	40.5
d2	34.9



D1	50
A	23
d2	-



D1	67
A	30.5
d2	41.7

Short Code	265.82	Short Code	VT271.89	Short Code	VT281.85
Part Number	2MT-002637-011	Part Number	2MT-002628-011	Part Number	2MT-002626-011
Temperature	82 °C	Temperature	89 °C	Temperature	85 °C
Specification	Jiggle Pin	Specification	Gasket - Valve	Specification	Gasket - Jiggle Pin
Application	FORD	Application	GM   NISSAN   OPEL   RENAULT	Application	DAEWOO   MERCEDES BENZ SSANGYONG



D1	54
A	33.5
d2	30



D1	54
A	31
d2	35

Short Code	284.82	Short Code	VT288.80	VT288.82	VT288.87
Part Number	2MT-002579-011	Part Number	2MT-002573-011	2MT-002590-011	2MT-002585-011
Temperature	82 °C	Temperature	80 °C	82 °C	87 °C
Specification	Jiggle Pin	Specification	Gasket	Gasket	Gasket
Application	FORD   ISUZU   OPEL	Application	AUDI   OPEL   PORSCHE SEAT   CATERPILLAR   VW	CHEVROLET   OPEL	AUDI   FORD   OPEL   SEAT SKODA   VOLVO   VW

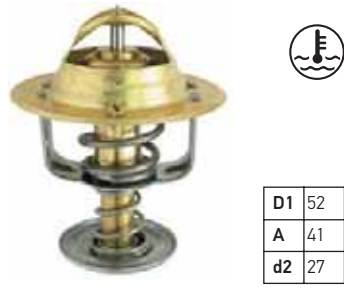
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# HELLA THERMOSTAT RANGE



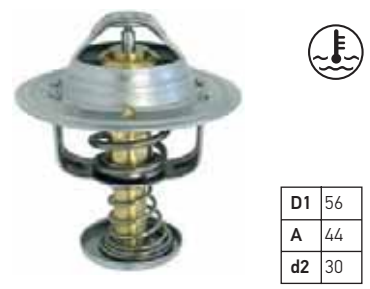
D1	28.5
A	-
d2	-

Short Code	VT297.92
Part Number	2MT-002646-021
Temperature	92 °C
Specification	Gasket
Application	GM   FIAT   OPEL



D1	52
A	41
d2	27

Short Code	300.82
Part Number	2MT-002600-011
Temperature	82 °C
Specification	Jiggle Pin
Application	FORD   MAZDA



D1	56
A	44
d2	30

Short Code	301.82
Part Number	2MT-002640-011
Temperature	82 °C
Specification	Jiggle Pin
Application	LEXUS   NISSAN   TOYOTA



D1	52
A	42
d2	32

Short Code	VT305.88
Part Number	2MT-002629-011
Temperature	88 °C
Specification	Gasket - Jiggle Pin - Valve
Application	LAND ROVER   MERCEDES



D1	28.5
A	-
d2	-

Short Code	VT313.92
Part Number	2MT-002646-011
Temperature	92 °C
Specification	Gasket
Application	GM   FIAT   OPEL



D1	54
A	33
d2	30

Short Code	316.82
Part Number	2MT-002605-011
Temperature	82 °C
Specification	Jiggle Pin
Application	HYUNDAI



D1	52
A	23
d2	-

Short Code	317.75*
Part Number	2MT-002577-011
Temperature	75 °C
Specification	-
Application	*ALTERNATIVE FOR 317.82 IN HOT TEMPERATURE ZONES

Short Code	317.82
Part Number	2MT-002569-011
Temperature	82 °C
Specification	-
Application	SUZUKI   TOYOTA

Short Code	317.88
Part Number	2MT-002576-011
Temperature	88 °C
Specification	-
Application	LAND ROVER   ROVER



D1	-
A	-
d2	-

Short Code	321.88
Part Number	2MT-002642-011
Temperature	88 °C
Specification	-
Application	FIAT   LANCIA



D1	54
A	33
d2	35

Short Code	VT318.82
Part Number	2MT-002591-011
Temperature	82 °C
Specification	Gasket - Jiggle Pin
Application	GM   ISUZU   OPEL   VW

Short Code	VT318.88
Part Number	2MT-002638-011
Temperature	88 °C
Specification	Gasket - Jiggle Pin
Application	VW





D1	28.5
A	-
d2	-

Short Code	VT324.87
Part Number	2MT-002593-011
Temperature	87 °C
Specification	Gasket
Application	FIAT   LANCIA





# HELLA THERMOSTAT RANGE




D1	40.3
A	30.3
d2	30

Short Code	VT327.82
Part Number	2MT-002601-011
Temperature	82 °C
Specification	Gasket
Application	CHEVROLET   OPEL



D1	40.3
A	30.3
d2	30

Short Code	VT328.87
Part Number	2MT-002616-011
Temperature	87 °C
Specification	Gasket
Application	CHEVROLET   OPEL



D1	73
A	38
d2	31

Short Code	VT355.82
Part Number	2MT-003558-201
Temperature	82 °C
Specification	Gasket
Application	DAIHATSU   TOYOTA

D1	-
A	-
d2	-

Short Code	VT390.87
Part Number	2MT-003908-701
Temperature	87 °C
Specification	Gasket
Application	FIAT   LANCIA

D1	36.5
A	30
d2	30

Short Code	VT399.92
Part Number	2MT-003999-201
Temperature	92 °C
Specification	Gasket - Jiggle Pin
Application	OPEL

# HELLA THERMOSWITCHES

Governed by an engine's temperature, an automotive thermoswitches activates several products in the cooling system.

## HELLA THERMOSWITCHES

Activate the electric-blower (fan), forcing the passage of air through the radiator and causing the reduction of cooling fluid temperature. Thermoswitches can also activate warning lamps or alarms. This alerts a driver of possible overheating in the cooling system.

### ADVANTAGES:

Ensures the engine remains in a defined temperature range in order to:

- Reduce friction and extend the engine's life.
- Reach the maximum torque and power.
- Avoid excessive fuel consumption.
- Avoid high levels of emission.

### FUNTIONING

- Activate the fan when the cooling fluid's temperature in the radiator exceeds the specified limit. This usually occurs when the vehicle is used in heavy traffic.
- Activate a warning, which can be either a warning lamp in the vehicle's instrument panel or an alarm, when cooling system is compromised.

## LOCATION

When used to activate the fan, the thermoswitch will be located in the vehicle's radiator. When used to activate a warning lamp or alarm, it may be located near the thermostatic valve or alternative place in the engine.

### WHEN IT DOES NOT WORK

- No Signal: Depends on the control unit. The engine fails to reach the optimal working temperature.
- Signal at lower temperature: The fan is working constantly, the engine does not reach the optimal working temperature and the combustion is poor, leading to higher fuel consumption.
- Signal at higher temperature: Causes the engine to overheat, burning the cylinder's head gasket, warping the cylinder's head and increasing the damage. The fluid's temperature in the radiator increases so much that it boils and causes the engine to overheat. The result can be burnt and deformed cylinder head gasket, damaged cooling hoses, leaking fluid from cooling system, etc.

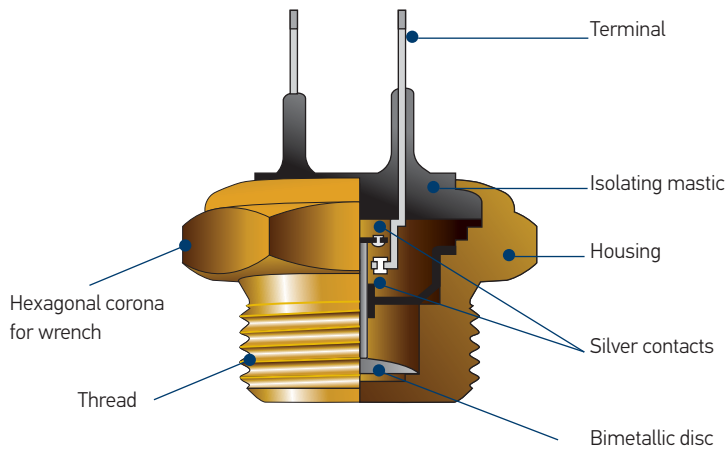
## MAINTENANCE

Important actions when changing the switch:

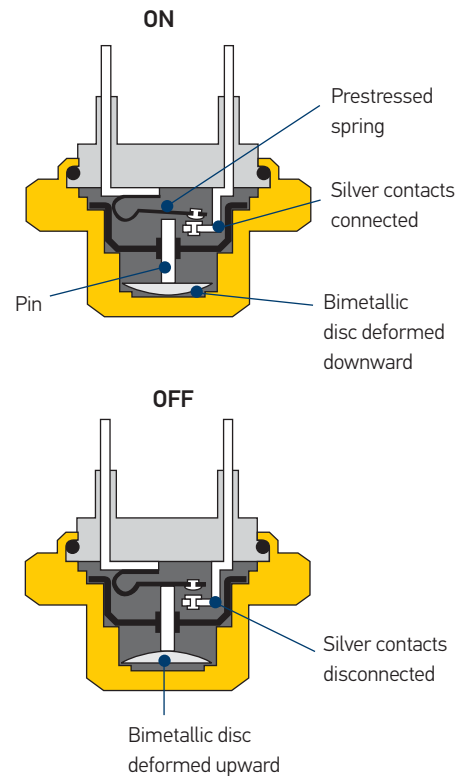
- Avoid excessive tightening.
- Bleed the air (remove air bubbles) from the cooling system.



## MAIN COMPONENTS



Mechanical automotive thermostat for cooling fan / air conditioning



## OPERATING PRINCIPLE

The main component of thermostats used in automotive systems is the bimetallic disc. Formed by two metals with different thermal expansion coefficients, the bimetallic disc is calibrated to snap at a specific temperature. This deformation causes the pin displacement that closes and opens the silver contacts.

## IMPORTANT

These bimetallic operated temperature switches are available either with normally closed (NC) or normally open (NO) contact configuration.

Some vehicle models use a thermostat in conjunction with a temperature sensor, called DUPLEX. This switch alerts the vehicle driver, via warning lamp or alarm, in instrument panel. It also activates the cooling fluid temperature gauge.

## MAINTENANCE

- Ensure that correct thermostat is matched to correct vehicle model specification.
- Never perform maintenance repair while the cooling system is hot. There is a great risk of burning injury.
- Immediately park vehicle in a safe place and turn engine off, if there is evidence of excessive temperature.
- Check the cooling fluid level weekly, with the engine cold.
- Always use the specified cooling fluid and the correct rating.
- Do not top-up the cooling system with pure water. This will dilute the ethylene glycol concentration.
- Any reduction in the cooling fluid level indicates leaks in the cooling system.
- Perform preventive maintenance of thermostats every 30 000 Km.

## DIAGNOSTIC

- The switch does not activate – inoperative.
- The switch activates outside of the specified temperature range.

In both cases tests can be performed in the workshop, making use of specific test equipment.

## LEGEND



Thermostat for electrical engine cooling fan.



Thermostat to be used in vehicles with air conditioning.



Thermostats can also be used for trucks.



Thermostat for warning lamp.

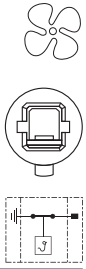
# HELLA THERMOSWITCH RANGE



Short Code	FS3046
Part Number	1MT-003046-011
Temperature	115°C
Thread	M16x1.5
Hex	22 mm
Application	FIAT   SEAT



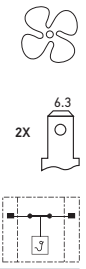
Short Code	FS3722
Part Number	1MT-372294-851
Temperature	90/85 °C
Thread	M16x1.5
Hex	17 mm
Application	DAIHATSU   GM   TOYOTA



Short Code	FS3724
Part Number	1MT-372485-800
Temperature	85/80 °C
Thread	M16x1.5
Hex	17 mm
Application	DAIHATSU   TOYOTA



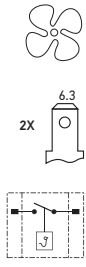
Short Code	FS3744
Part Number	1MT-374485-801
Temperature	85/80 °C
Thread	M16x1.5
Hex	17 mm
Application	mitsubishi



Short Code	FS7059
Part Number	1MT-705115-119
Temperature	115/110 °C
Thread	M22x1.5
Hex	29 mm
Application	LAND ROVER   M. BENZ   SAAB



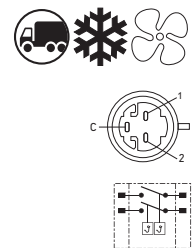
Short Code	FS7180
Part Number	1MT-718959-000
Temperature	95/90 °C
Thread	M22x1.5
Hex	29 mm
Application	SEAT   VW



Short Code	FS7051	FS7052	FS7053	FS7054	FS7055	FS7056	FS7057
Part Number	1MT-705826-800	1MT-705867-600	1MT-705928-700	1MT-705958-000	1MT-705959-000	1MT-705100-951	1MT-705103-981
Temperature	82/68 °C	86/76 °C	92/87 °C	95/80 °C	95/90 °C	100/95 °C	103/98 °C
Thread	M22x1.5	M22x1.5	M22x1.5	M22x1.5	M22x1.5	M22x1.5	M22x1.5
Hex	29 mm	29 mm	29 mm	29 mm	29 mm	29 mm	29 mm
Application	PEUGEOT	ALFA ROMEO CITROËN   FORD PEUGEOT   RENAULT	ALFA ROMEO FIAT   SAAB   VW	PEUGEOT	LAND ROVER OPEL   PEUGEOT VW	GM   FORD   OPEL	FORD LAND ROVER   VW

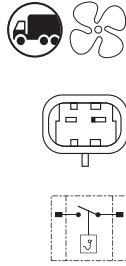


Short Code	FS7171	FS7172	FS7173
Part Number	1MT-717879-200	1MT-717929-601	1MT-717951-020
Temperature	87-92 °C	92-96 °C	95-102 °C
Thread	M22x1.5	M22x1.5	M22x1.5
Hex	29 mm	29 mm	29 mm
Application	VW	VW	AUDI   SEAT   SKODA   VW

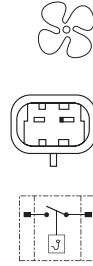


Short Code	FS7250
Part Number	1MT-725929-701
Temperature	92-87 °C
Thread	M22x1.5
Hex	29 mm
Application	ALFA ROMEO   FIAT   PEUGEOT

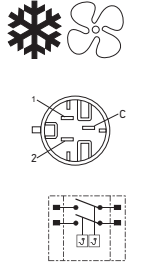
# HELLA THERMOSWITCH RANGE



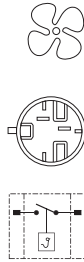
Short Code	FS7260
Part Number	1MT-726928-700
Temperature	92/87 °C
Thread	M22x1.5
Hex	29 mm
Application	ALFA ROMEO   FIAT   IVECO LANCIA   PEUGEOT



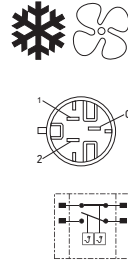
Short Code	FS7400
Part Number	1MT-740100-951
Temperature	100/95 °C
Thread	M22x1.5
Hex	29 mm
Application	GM   OPEL



Short Code	FS7610
Part Number	1MT-761100-110
Temperature	100-110 °C
Thread	M22x1.5
Hex	29 mm
Application	GM   OPEL



Short Code	FS7660
Part Number	1MT-766100-951
Temperature	100/95 °C
Thread	M22x1.5
Hex	29 mm
Application	GM   OPEL



Short Code	FS7670
Part Number	1MT-767951-200
Temperature	95-120 °C
Thread	M22x1.5
Hex	29 mm
Application	GM   OPEL



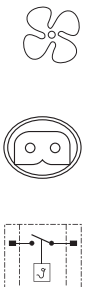
Short Code	FS7870
Part Number	1MT-787951-020
Temperature	95-102 °C
Thread	M22x1.5
Hex	22 mm
Application	AUDI   FORD   SEAT   SKODA   VW



Short Code	FS7880
Part Number	1MT-788928-701
Temperature	92/87 °C
Thread	M16x1.5
Hex	22 mm
Application	NISSAN



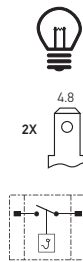
Short Code	FS7910
Part Number	1MT-791877-701
Temperature	87/77 °C
Thread	M16x1.5
Hex	22 mm
Application	NISSAN



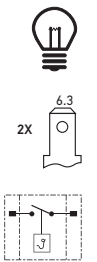
Short Code	FS7920
Part Number	1MT-792928-701
Temperature	92/82 °C
Thread	M16x1.5
Hex	22 mm
Application	NISSAN



Short Code	FS7950
Part Number	1MT-795959-000
Temperature	95/90 °C
Thread	M22x1.5
Hex	22 mm
Application	AUDI   SEAT   SKODA   VW



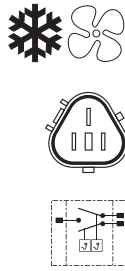
Short Code	FS8000
Part Number	1MT-800102-971
Temperature	102/97 °C
Thread	M14x1.5
Hex	22 mm
Application	BMW



Short Code	FS8010
Part Number	1MT-801959-001
Temperature	95/90 °C
Thread	M14x1.5
Hex	22 mm
Application	BMW   OPEL   VOLVO

**NOTE:** Only the most common applications are listed. Please check application guide for product specific reference, at [www.hella.co.za](http://www.hella.co.za)

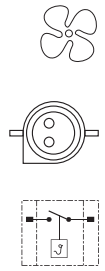
# HELLA THERMOSWITCH RANGE



Short Code	FS8020
Part Number	1MT-802971-021
Temperature	97-102 °C
Thread	M22x1.5
Hex	29 mm
Application	AUDI   SEAT   SKODA   VW



Short Code	FS8030
Part Number	1MT-803959-001
Temperature	95/90 °C
Thread	M22x1.5
Hex	29 mm
Application	AUDI   SEAT   SKODA   VW



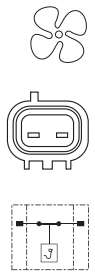
Short Code	FS8040
Part Number	1MT-804102-971
Temperature	102/97 °C
Thread	M22x1.5
Hex	29 mm
Application	FORD



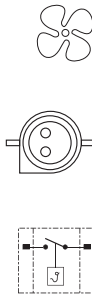
Short Code	FS8100
Part Number	1MT-810928-071
Temperature	92/87 °C
Thread	M16x1.5
Hex	22 mm
Application	HONDA



Short Code	FS8110
Part Number	1MT-811938-801
Temperature	93/88 °C
Thread	M18x1.5
Hex	24 mm
Application	HONDA   ISUZU   ROVER



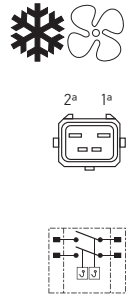
Short Code	FS8140
Part Number	1MT-814908-501
Temperature	90/85 °C
Thread	M16x1.5
Hex	21 mm
Application	DAIHATSU   LEXUS   TOYOTA



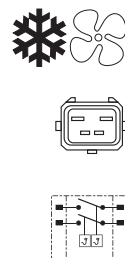
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Part Number	1MT-820928-701
Temperature	92/87 °C
Thread	M22x1.5
Hex	29 mm
Application	FORD



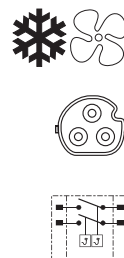
Short Code	FS8210
Part Number	1MT-821928-201
Temperature	92/82 °C
Thread	M22x1.5
Hex	29 mm
Application	GM   OPEL   RENAULT



Short Code	FS8280
Part Number	1MT-828951-001
Temperature	95-100 °C
Thread	M22x1.5
Hex	29 mm
Application	FORD



Short Code	FS8290
Part Number	1MT-829100-110
Temperature	100-110 °C
Thread	M22x1.5
Hex	29 mm
Application	FORD



Short Code	FS8310
Part Number	6ZT-007837-001
Temperature	90-97 °C
Thread	M14x1.5
Hex	24 mm
Application	BMW



Short Code	FS8320
Part Number	1MT-832879-201
Temperature	87-92 °C
Thread	M22x1.5
Hex	29 mm
Application	GM   OPEL   RENAULT

# HELLA THERMOSWITCH RANGE



Short Code	FS8330
Part Number	1MT-833100-107
Temperature	100-107 °C
Thread	M14x1.5
Hex	22 mm
Application	MERCEDES BENZ



Short Code	FS8390
Part Number	1MT-839909-701
Temperature	90-97 °C
Thread	M14x1.5
Hex	22 mm
Application	BMW



Short Code	FS8400
Part Number	1MT-840951-021
Temperature	95-102 °C
Thread	Ø 20
Hex	-
Application	AUDI   SKODA   VW



Short Code	FS8680
Part Number	1MT-868850-001
Temperature	85 °C
Thread	M16x1.5
Hex	21 mm
Application	HYUNDAI



Short Code	FS8700
Part Number	1MT-870110-105
Temperature	110/105 °C
Thread	M14x1.5
Hex	24 mm
Application	BMW



Short Code	FS8710
Part Number	1MT-871920-001
Temperature	92 °C
Thread	M16x1.5
Hex	17 mm
Application	DAIHATSU   TOYOTA



Short Code	FS8720
Part Number	1MT-872900-001
Temperature	90 °C
Thread	M16x1.5
Hex	17 mm
Application	DAIHATSU   TOYOTA



Short Code	FS8729
Part Number	6ZT-008729-001
Temperature	100-95 °C
Thread	M14x1.5
Hex	22 mm
Application	MERCEDES BENZ

# HELLA TEMPERATURE SENDER UNITS

The automotive temperature sender unit is a thermometer that converts temperature into electric signals in order to be interpreted by on-board electronic systems.

## HELLA TEMPERATURE SENDER UNITS

Are used in on-board electronic systems for the following measurements:

- **Engine Temperature:** In the injection/ignition electronic systems, measuring the cooling fluid's temperature in engines cooled by water or the oil's temperature in engines cooled by air.
- **Air Temperature:** In the injection / ignition electronic systems, measuring the temperature of the inlet air.
- **Environment Temperature, inner and outer:** In the electronic climatic systems, measuring the air temperature.
- **Battery Temperature:** In the integrated alternator control systems, measuring the battery temperature.

## FUNCTIONING

### Engine temperature sensor:

- Adjust the fuel mixture: enriching mixture while engine is cold.
- Adjust timing: causes delays when engine is hot in order to avoid detonation.
- Control the radiator's fan.
- Air cooling temperature sensor

### Air cooling temperature sensor:

- Adjust the ignition point.
- Calculate the admission's cooling air mass in "speed/density" systems.

## LOCATION

**Engine temperature sensor:** In the thermostatic valve, in the engine block or in the intake manifold base, in cases where the cooling fluid flows through it (engines powered by alcohol).

**Air cooling temperature sensor:** In the intake manifold (multipoint systems) or in the cap of the butterfly body (monopoint systems).

## WHEN IT DOES NOT WORK

- Engine temperature sensor: Increases consumption and causes engine hesitation. In early ignition systems can cause engine choking.
- Air temperature sensor: Detonation; irregular idle speed, overheating.

## MAINTENANCE

Important actions when changing the temperature sensor:

- Avoid excessive tightening.
- Bleed the air (remove air bubbles) from the cooling system.

## OPERATING PRINCIPLE

The main component used in temperature sensors for automotive systems are thermistors (NTC type resistors). The main feature of the thermistor (NTC: Negative Temperature Coefficient) is presenting an accentuated variation of its electric resistance in relation to temperature.

Temperature increase	»	Resistance reduction
----------------------	---	----------------------

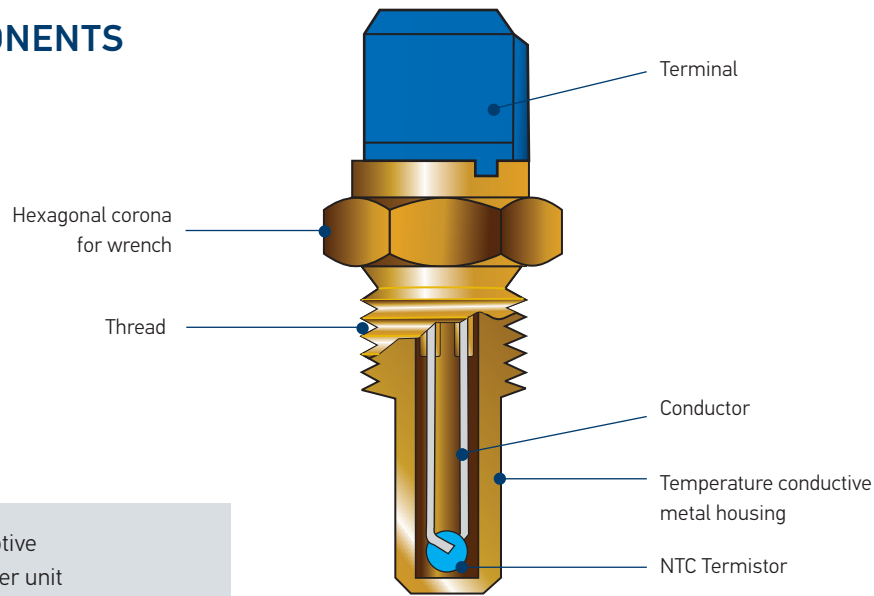
Temperature reduction	»	Resistance increase
-----------------------	---	---------------------

The sensor assembly depends on the application intended. When intended for engine's temperature measurement, the NTC element is located inside a protection capsule, isolating it from the cooling fluid.





## MAIN COMPONENTS



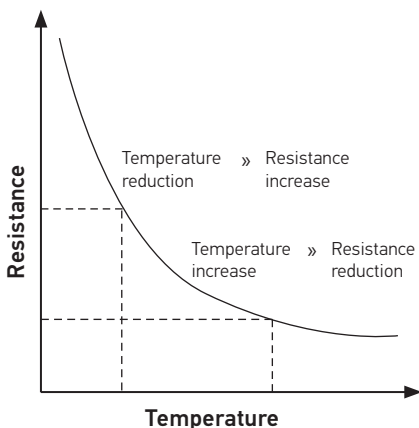
Electronic automotive temperature sender unit

For air temperature measurement (air cooling, outer/ inner air), the NTC element remains exposed to air flow.

**Note:** The air cooling temperature (ACT) can be associated to the manifold pressure sensor (MAP) forming a combined sensor, which in some cases is identified as MAT.

**Important:** Some vehicle models use a Temperature Sender Unit in conjunction with a Thermostat, called DUPLEX. This sensor activates the cooling fluid temperature gauge. It also alerts the vehicle driver via warning lamp or alarm in instrument panel of excess temperature.

### CURVE CHARACTERISTIC (resistance + temperature)







### MAINTENANCE

- Ensure that correct electronic temperature sender unit is matched to correct vehicle model specification.
- Never perform maintenance repair while the cooling system is hot. There is a great risk of burning injury.
- Immediately park vehicle in a safe place and turn engine off, if there is evidence of excessive temperature.
- Check the cooling fluid level weekly, with the engine cold.
- Always use the specified cooling fluid and the correct rating.
- Do not top-up the cooling system with pure water. This will dilute the ethylene glycol concentration.
- Any reduction in the cooling fluid level indicates leaks in the cooling system.
- Perform preventive maintenance of electronic temperature sender every 30 000 Km.

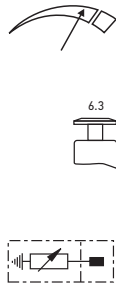
### DIAGNOSTIC

- For these sensors there are three failure types:
- The sensor sends the wrong information, but inside the working range.
  - The sensor sends the wrong information out of the working range.
  - The information is wrong for certain temperatures (intermittent failure).
  - In all cases, the diagnostic can be performed in the workshop using of test equipment (scanner /multimeter).

### LEGEND

-  Temperature sender with switch for warning alarm.
-  Coolant temperature sender.
-  Temperature sender can also be used for trucks.
-  Temperature sender for indication instruments coolant.

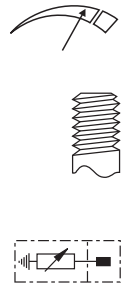
# HELLA TEMPERATURE SENDER UNIT RANGE



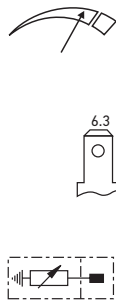
Short Code	TS3029
Part Number	1MT-003029-011
Thread	1/8" x 27
Hex	1/2"
Application	DAEWOO   GM   ISUZU   OPEL



Short Code	TS3041
Part Number	1MT-003041-011
Thread	M16 x 1.5
Hex	19 mm
Application	ALFA ROMEO   FIAT



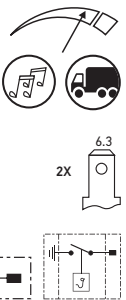
Short Code	TS3057
Part Number	1MT-003057-011
Thread	1/8" x 27
Hex	1/2"
Application	CHRYSLER   FORD



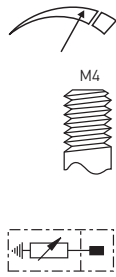
Short Code	TS3062
Part Number	1MT-003062-011
Thread	M16 x 1.5
Hex	11/16"
Application	HYUNDAI   MITSUBISHI   TOYOTA



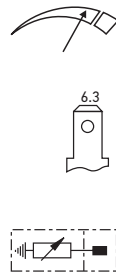
Short Code	TS3077
Part Number	1MT-003077-011
Thread	M16x1.5
Hex	11/16"
Application	GM   SUBARU   TOYOTA



Short Code	TS3090
Part Number	1MT-003090-011
Thread	M14x1.5
Hex	22mm
Application	MERCEDES BENZ



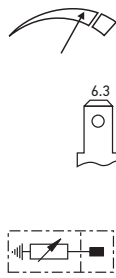
Short Code	TS3100
Part Number	1MT-003100-011
Thread	M14x1.25
Hex	16 mm
Application	ALFA ROMEO   FIAT   PEUGEOT RENAULT



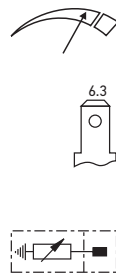
Short Code	TS3105
Part Number	1MT-003105-011
Thread	1/8" x 27
Hex	13 mm
Application	FORD   LAND ROVER



Short Code	TS3107
Part Number	1MT-003107-011
Thread	M14 x 1.5
Hex	19 mm
Application	BMW   SKODA



Short Code	TS3119
Part Number	1MT-003119-011
Thread	1/8" x 28
Hex	13 mm
Application	DAIHATSU   FORD   OPEL MAZDA   MITSUBISHI   TOYOTA

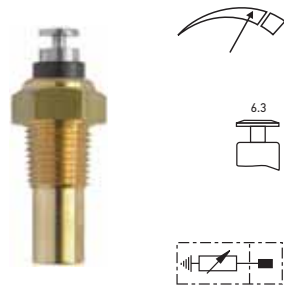


Short Code	TS3120
Part Number	1MT-003120-011
Thread	M12 x 1.25
Hex	13 mm
Application	NISSAN

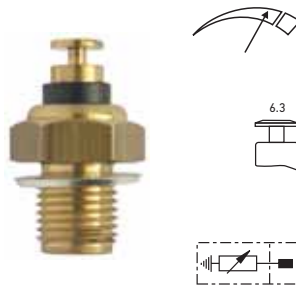


Short Code	TS3121
Part Number	1MT-003121-011
Thread	M14 x 1.25
Hex	19 mm
Application	FIAT

# HELLA TEMPERATURE SENDER UNIT RANGE



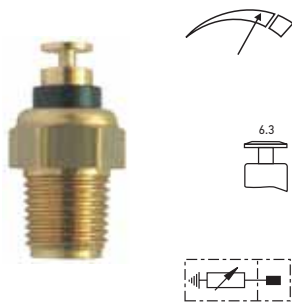
Short Code	TS3125
Part Number	1MT-003125-011
Thread	1/8"x27
Hex	13 mm
Application	CHEVROLET   OPEL   SAAB



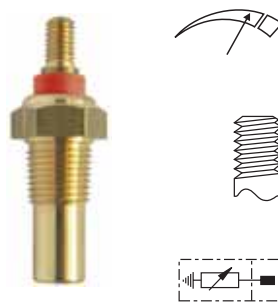
Short Code	TS3126
Part Number	1MT-003126-011
Thread	M10 x 1.0
Hex	14 mm
Application	AUDI   VOLVO   VW



Short Code	TS3128
Part Number	6PT-009107-201
Thread	M8 x 0.75
Hex	13 mm
Application	FORD   KIA   MAZDA



Short Code	TS3129
Part Number	1MT-003129-011
Thread	M10 x 1.0
Hex	13 mm
Application	VOLVO   VW



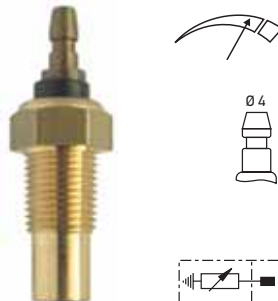
Short Code	TS3130
Part Number	1MT-003130-011
Thread	1/8" x 27
Hex	13 mm
Application	FORD



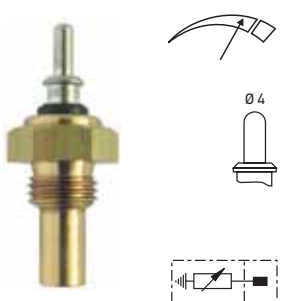
Short Code	TS3131
Part Number	1MT-003131-011
Thread	Ø 11 mm
Hex	-
Application	NISSAN



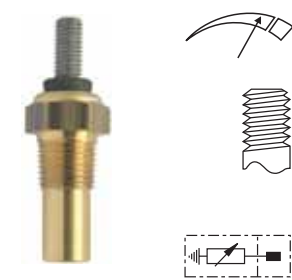
Short Code	TS3133
Part Number	1MT-003133-011
Thread	M16 x 1.5
Hex	17 mm
Application	GM   ISUZU   OPEL



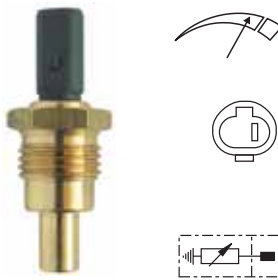
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Part Number	1MT-003135-011
Thread	1/8"x28
Hex	13 mm
Application	FORD   HONDA   KIA   MAZDA



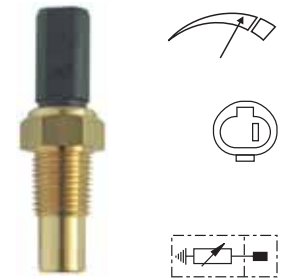
Short Code	TS3140
Part Number	1MT-003140-011
Thread	M14x1.5
Hex	19 mm
Application	DAEWOO   MERCEDES BENZ   VW



Short Code	TS3144
Part Number	1MT-003144-011
Thread	1/8" x27
Hex	13 mm
Application	FORD



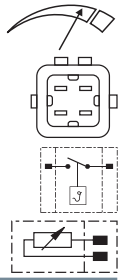
Short Code	TS3150
Part Number	1MT-003150-011
Thread	M16 x 1.5
Hex	17 mm
Application	TOYOTA   VW



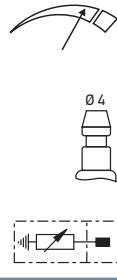
Short Code	TS3151
Part Number	1MT-003151-011
Thread	1/8 GAS
Hex	13 mm
Application	TOYOTA

**NOTE:** Only the most common applications are listed. Please check application guide for product specific reference, at [www.hella.co.za](http://www.hella.co.za)

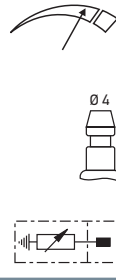
# HELLA TEMPERATURE SENDER UNIT RANGE



Short Code	TS3170
Part Number	1MT-003170-011
Thread	Ø 20
Hex	-
Application	VW



Short Code	TS3200
Part Number	1MT-003200-011
Thread	M16 x 1.5
Hex	17 mm
Application	DAIHATSU   FIAT   FORD KIA   MAZDA   SUZUKI



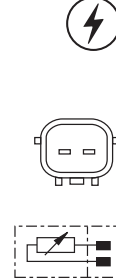
Short Code	TS3201
Part Number	1MT-003201-011
Thread	M16 x 1.5
Hex	17 mm
Application	MAZDA



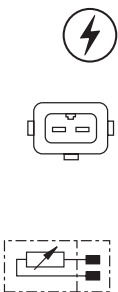
Short Code	TS3202
Part Number	1MT-003202-011
Thread	M16 x 1.5
Hex	17 mm
Application	NISSAN



Short Code	TS3203
Part Number	1MT-003203-011
Thread	M16 x 1.5
Hex	11/16"
Application	DAIHATSU   GM   HYUNDAI TOYOTA   VW



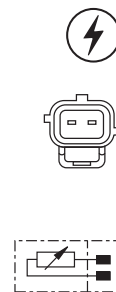
Short Code	TS4000
Part Number	1MT-004000-011
Thread	M12 x 1.5
Hex	19 mm
Application	FORD   GM   NISSAN   OPEL RENAULT



Short Code	TS4001
Part Number	1MT-004001-011
Thread	M12x1.5
Hex	19 mm
Application	ALFA ROMEO   BMW   FORD NISSAN   RENAULT   SKODA



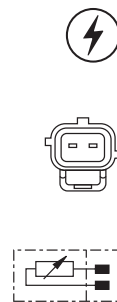
Short Code	TS4003
Part Number	1MT-004003-011
Thread	M14x1.5
Hex	22 mm
Application	MERCEDES BENZ



Short Code	TS4020
Part Number	1MT-004020-011
Thread	3/8GAS
Hex	19 mm
Application	CITROËN   HUYNDAI MITSUBISHI   SMART   VOLVO



Short Code	TS4024
Part Number	1MT-004024-011
Thread	M10x1.0
Hex	19 mm
Application	AUDI   SEAT   VW

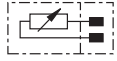


Short Code	TS4027
Part Number	1MT-004027-011
Thread	M12 x 1.5
Hex	19 mm
Application	FORD   MAZDA   TOYOTA   VOLVO

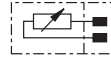


Short Code	TS4034
Part Number	1MT-004034-011
Thread	Ø 20
Hex	-
Application	FORD   VW

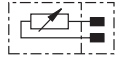
## HELLA TEMPERATURE SENDER UNIT RANGE



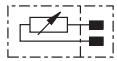
Short Code	TS4037
Part Number	1MT-004037-011
Thread	3/8 x 18 NPTF
Hex	19 mm
Application	FORD   JAGUAR   MAZDA   VOLVO



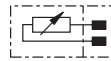
Short Code	TS4050
Part Number	1MT-004050-011
Thread	M12 x 1.5
Hex	19 mm
Application	ALFA ROMEO   CHEVROLET DAEWOO   FIAT   RENAULT OPEL   SAAB



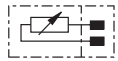
Short Code	TS4051
Part Number	1MT-004051-011
Thread	M12 x 1.5
Hex	19 mm
Application	ALFA ROMEO   BMW   CITROËN FIAT   HONDA   OPEL   PEUGEOT TOYOTA   VW



Short Code	TS4065
Part Number	1MT-004065-011
Thread	M12 x 1.5
Hex	19 mm
Application	DAIHATSU   GM   MAZDA SUZUKI   TOYOTA



Short Code	TS4075
Part Number	1MT-004075-011
Thread	M12x1.5
Hex	22 mm
Application	BMW   LAND ROVER



Short Code	TS4092
Part Number	1MT-004092-001
Thread	Ø 20
Hex	-
Application	FORD   MITSUBISHI   MERCEDES BENZ   PORCHE   VW GROUP

# OE REFERENCE LIST

OEM NUMBER	SHORT CODE	PART NUMBER	PRODUCT	OEM NUMBER	SHORT CODE	PART NUMBER	PRODUCT
<b>ALFA ROMEO</b>				<b>FIAT / LANCIA</b>			
4500823	235.79	2MT-002635-011	THERMOSTAT	4154313	207.87	2MT-002580-011	THERMOSTAT
4750024	235.79	2MT-002635-011	THERMOSTAT	4163888	FS3046	1MT-003046-011	THERMOSWITCH
5972332	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	4169122	FS3046	1MT-003046-011	THERMOSWITCH
7588802	TS3041	1MT-003041-011	TEMPERATURE SENDER UNIT	4185217	FS3046	1MT-003046-011	THERMOSWITCH
9946866	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	4189508	FS3046	1MT-003046-011	THERMOSWITCH
60506988	FS7052	1MT-705867-600	THERMOSWITCH	4318331	FS7053	1MT-705928-700	THERMOSWITCH
60513205	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	4334613	FS3046	1MT-003046-011	THERMOSWITCH
60523383	TS4001	1MT-004001-011	TEMPERATURE SENDER UNIT	4355846	223.82	2MT-002607-011	THERMOSTAT
60549313	FS7053	1MT-705928-700	THERMOSWITCH	4393448	223.82	2MT-002607-011	THERMOSTAT
60564432	FS7053	1MT-705928-700	THERMOSWITCH	4414779	FS3046	1MT-003046-011	THERMOSWITCH
60585603	FS7260	1MT-726928-700	THERMOSWITCH	4437481	223.82	2MT-002607-011	THERMOSTAT
60800167	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	5992746	FS7260	1MT-726928-700	THERMOSWITCH
60808223	FS7260	1MT-726928-700	THERMOSWITCH	7083256	VT297.92	2MT-002646-021	THERMOSTAT
60809247	FS7250	1MT-725929-701	THERMOSWITCH	7083256	VT313.92	2MT-002646-011	THERMOSTAT
60811520	TS4050	1MT-004050-011	TEMPERATURE SENDER UNIT	7303615	235.82	2MT-002594-011	THERMOSTAT
60813687	TS3041	1MT-003041-011	TEMPERATURE SENDER UNIT	7512908	FS3046	1MT-003046-011	THERMOSWITCH
1191111010	TS4001	1MT-004001-011	TEMPERATURE SENDER UNIT	7540318	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
1953211010	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	7540319	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
7910247507	TS3100	1MT-003100-011	TEMPERATURE SENDER UNIT	7545958	VT390.87	2MT-003908-701	THERMOSTAT
60 713 535	235.79	2MT-002635-011	THERMOSTAT	7588847	FS3046	1MT-003046-011	THERMOSWITCH
<b>BMW</b>				7588920	FS3046	1MT-003046-011	THERMOSWITCH
11 531 710 953	226.80	2MT-002260-011	THERMOSTAT	7589135	VT390.87	2MT-003908-701	THERMOSTAT
11 531 710 954	226.80	2MT-002260-011	THERMOSTAT	7656567	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
11 531 713 040	226.80	2MT-002260-011	THERMOSTAT	7723325	VT324.87	2MT-002593-011	THERMOSTAT
13 62 1 284 397	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	7728057	FS7260	1MT-726928-700	THERMOSWITCH
13 62 1 357 414	TS4001	1MT-004001-011	TEMPERATURE SENDER UNIT	7738582	FS7250	1MT-725929-701	THERMOSWITCH
13 62 1 401 945	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	8122459	FS7053	1MT-705928-700	THERMOSWITCH
13 62 1 433 076	TS4075	1MT-004075-011	TEMPERATURE SENDER UNIT	43558460	223.82	2MT-002607-011	THERMOSTAT
13 62 1 709 966	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	46130346	VT232.87	2MT-002614-011	THERMOSTAT
13 64 2 72	FS8010	1MT-801959-001	THERMOSWITCH	46464993	321.88	2MT-002642-011	THERMOSTAT
13 64 2 73	FS8000	1MT-800102-971	THERMOSWITCH	46477717	FS7250	1MT-725929-701	THERMOSWITCH
13 78 0 73	FS8310	6ZT-007837-001	THERMOSWITCH	46513506	321.88	2MT-002642-011	THERMOSTAT
14 33 0 76	TS4075	1MT-004075-011	TEMPERATURE SENDER UNIT	46523733	321.88	2MT-002642-011	THERMOSTAT
23 01 7 838 935	TS4075	1MT-004075-011	TEMPERATURE SENDER UNIT	46776216	321.88	2MT-002642-011	THERMOSTAT
61 31 1 357 073	FS8010	1MT-801959-001	THERMOSWITCH	50000969	FS7260	1MT-726928-700	THERMOSWITCH
61 311 364 272	FS8010	1MT-801959-001	THERMOSWITCH	82280950	FS7053	1MT-705928-700	THERMOSWITCH
61 311 364 273	FS8000	1MT-800102-971	THERMOSWITCH	82286103	FS7053	1MT-705928-700	THERMOSWITCH
61 311 378 073	FS8310	6ZT-007837-001	THERMOSWITCH	82477919	FS7260	1MT-726928-700	THERMOSWITCH
61 318 363 677	FS8390	1MT-839909-701	THERMOSWITCH	95588361	207.87	2MT-002580-011	THERMOSTAT
61 319 401 973	FS8700	1MT-870110-105	THERMOSWITCH	98463638	235.79	2MT-002635-011	THERMOSTAT
62 11 0 788 115	TS3107	1MT-003107-011	TEMPERATURE SENDER UNIT	500329622	235.82	2MT-002594-011	THERMOSTAT
8 363 677	FS8390	1MT-839909-701	THERMOSWITCH	655331172	FS7053	1MT-705928-700	THERMOSWITCH
9 401 973	FS8700	1MT-870110-105	THERMOSWITCH	9605028680	207.87	2MT-002580-011	THERMOSTAT
<b>CATERPILLAR</b>				4235333	FS7053	1MT-705928-700	THERMOSWITCH
90410665	VT327.82	2MT-002601-011	THERMOSTAT	4263597	FS7053	1MT-705928-700	THERMOSWITCH
90412604	VT288.82	2MT-002590-011	THERMOSTAT	4340878	FS7053	1MT-705928-700	THERMOSWITCH
93206694	VT328.87	2MT-002616-011	THERMOSTAT	55331172	FS7053	1MT-705928-700	THERMOSWITCH
94618609	207.87	2MT-002580-011	THERMOSTAT	<b>FORD</b>			
4N6958	VT288.80	2MT-002573-011	THERMOSTAT	801587	VT288.87	2MT-002585-011	THERMOSTAT
9N5020	VT288.80	2MT-002573-011	THERMOSTAT	1001993	239.88	2MT-002398.801	THERMOSTAT
<b>CHRYSLER</b>				1018799	VT225.80	2MT-002574-011	THERMOSTAT
2958320	TS3057	1MT-003057-011	TEMPERATURE SENDER UNIT	6100372	VT288.87	2MT-002585-011	THERMOSTAT
4105768	254.88	2MT-002597-011	THERMOSTAT	6106381	VT288.87	2MT-002585-011	THERMOSTAT
4494470	254.88	2MT-002597-011	THERMOSTAT	6169774	VT288.87	2MT-002585-011	THERMOSTAT
4573560	254.88	2MT-002597-011	THERMOSTAT	6176366	VT288.87	2MT-002585-011	THERMOSTAT
4671 065	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT	6866389	239.88	2MT-002398.801	THERMOSTAT
<b>DAF</b>				6994257	VT246.88	2MT-002588-011	THERMOSTAT
104.459	VT234.75	2MT-002584-011	THERMOSTAT	1 100 736	TS4092	1MT-004092-001	TEMPERATURE SENDER UNIT
390.455	VT234.75	2MT-002584-011	THERMOSTAT	1 331 294	TS4034	1MT-004034-011	TEMPERATURE SENDER UNIT
394.346	VT234.75	2MT-002584-011	THERMOSTAT	1 459 209	TS4092	1MT-004092-001	TEMPERATURE SENDER UNIT
<b>FIAT / LANCIA</b>				1 583 836	TS3057	1MT-003057-011	TEMPERATURE SENDER UNIT
4114572	FS7053	1MT-705928-700	THERMOSWITCH	1 591 388	TS3057	1MT-003057-011	TEMPERATURE SENDER UNIT
4141538	FS3046	1MT-003046-011	THERMOSWITCH	1 640 040	TS3105	1MT-003105-011	TEMPERATURE SENDER UNIT
4154312	207.87	2MT-002580-011	THERMOSTAT	1 646 398	FS8200	1MT-820928-701	THERMOSWITCH
<b>HELLA TEMPERATURE SENDER UNITS</b>				1 652 990	FS8040	1MT-804102-971	THERMOSWITCH
				1 669 948	TS4034	1MT-004034-011	TEMPERATURE SENDER UNIT
				1 701 341	TS3057	1MT-003057-011	TEMPERATURE SENDER UNIT
				1 784 077	TS3105	1MT-003105-011	TEMPERATURE SENDER UNIT

\*As alternative in hot climate zones

**NOTE:** Only the most common applications are listed. Please check application guide for product specific reference, at [www.hella.co.za](http://www.hella.co.za)

# OE REFERENCE LIST

OEM NUMBER	SHORT CODE	PART NUMBER	PRODUCT	OEM NUMBER	SHORT CODE	PART NUMBER	PRODUCT
<b>FORD</b>				<b>FORD</b>			
1 957 002	TS4001	1MT-004001-011	TEMPERATURE SENDER UNIT	86AB-10884-AA	TS3130	1MT-003130-011	TEMPERATURE SENDER UNIT
1 960 041	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT	86VB-10884-BA	TS3144	1MT-003144-011	TEMPERATURE SENDER UNIT
1 960 296	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT	87BB-8B607-AA	FS8290	1MT-829100-110	THERMOSWITCH
1 961 789	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT	87BB-8B607-AB	FS8280	1MT-828951-001	THERMOSWITCH
256G-8570-AB	265.82	2MT-002637-011	THERMOSTAT	87BB-8B607-AB	FS8290	1MT-829100-110	THERMOSWITCH
3 395 475	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT	89BB-8B607-AC	FS8280	1MT-828951-001	THERMOSWITCH
3 396 924	300.82	2MT-002600-011	THERMOSTAT	89FB-8B607-A1A	FS8200	1MT-820928-701	THERMOSWITCH
3 405 645	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT	89FF 8575 AB	239.88	2MT-002398.801	THERMOSTAT
3 465 427	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT	928M 8575 AA	239.88	2MT-002398.801	THERMOSTAT
3 599 763	300.82	2MT-002600-011	THERMOSTAT	928M 8575 AE	239.88	2MT-002398.801	THERMOSTAT
3 601 374	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT	92AB-8B607-AA	FS8040	1MT-804102-971	THERMOSWITCH
3 893 570	300.82	2MT-002600-011	THERMOSTAT	92BM 8575 AD	239.88	2MT-002398.801	THERMOSTAT
3 893 571	300.82	2MT-002600-011	THERMOSTAT	948M 8575 AA	239.88	2MT-002398.801	THERMOSTAT
3 902 514	300.82	2MT-002600-011	THERMOSTAT	95VW-10884-AA	TS4034	1MT-004034-011	TEMPERATURE SENDER UNIT
3S6G-8575-A2A	265.82	2MT-002637-011	THERMOSTAT	95VW-10884-AB	TS4034	1MT-004034-011	TEMPERATURE SENDER UNIT
4 176 181	300.82	2MT-002600-011	THERMOSTAT	95VW-8B607-GA	FS7870	1MT-787951-020	THERMOSWITCH
4 188 498	300.82	2MT-002600-011	THERMOSTAT	B3C8-18840	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT
4 323 633	TS4037	1MT-004037-011	TEMPERATURE SENDER UNIT	BG4A-8A590-AA	265.82	2MT-002637-011	THERMOSTAT
4 337 456	TS4037	1MT-004037-011	TEMPERATURE SENDER UNIT	C3AZ-10884-A	TS3057	1MT-003057-011	TEMPERATURE SENDER UNIT
6 058 836	TS3057	1MT-003057-011	TEMPERATURE SENDER UNIT	C4AH-10884-A	TS3105	1MT-003105-011	TEMPERATURE SENDER UNIT
6 076 967	TS3105	1MT-003105-011	TEMPERATURE SENDER UNIT	C5EH-10884-B	TS3057	1MT-003057-011	TEMPERATURE SENDER UNIT
6 098 273	TS3057	1MT-003057-011	TEMPERATURE SENDER UNIT	D1FZ-10884-B	TS3057	1MT-003057-011	TEMPERATURE SENDER UNIT
6 104 433	FS7057	1MT-705103-981	THERMOSWITCH	D27Z-10884-A	TS3200	1MT-003200-011	TEMPERATURE SENDER UNIT
6 104 434	FS7057	1MT-705103-981	THERMOSWITCH	D8RZ-8B607-C	FS7057	1MT-705103-981	THERMOSWITCH
6 108 298	TS3130	1MT-003130-011	TEMPERATURE SENDER UNIT	E3HN-8575-AA	284.82	2MT-002579-011	THERMOSTAT
6 113 258	TS3130	1MT-003130-011	TEMPERATURE SENDER UNIT	E6TZ-8575-A	VT246.88	2MT-002588-011	THERMOSTAT
6 120 663	FS7052	1MT-705867-600	THERMOSWITCH	E7GZ-10884-B	TS3128	6PT-009107-201	TEMPERATURE SENDER UNIT
6 136 366	TS3130	1MT-003130-011	TEMPERATURE SENDER UNIT	E9Z2-10884-C	TS3135	1MT-003135-011	TEMPERATURE SENDER UNIT
6 141 932	TS3130	1MT-003130-011	TEMPERATURE SENDER UNIT	ERR3291A	VT305.88	2MT-002629-011	THERMOSTAT
6 142 676	FS8040	1MT-804102-971	THERMOSWITCH	F2TZ-8575-A	VT246.88	2MT-002588-011	THERMOSTAT
6 145 143	TS3144	1MT-003144-011	TEMPERATURE SENDER UNIT	F32Z-10884-A	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT
6 146 107	FS8200	1MT-820928-701	THERMOSWITCH	F32Z-12A648-A	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT
6 146 110	FS8200	1MT-820928-701	THERMOSWITCH	F42Z-10884-A	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT
6 146 864	TS3130	1MT-003130-011	TEMPERATURE SENDER UNIT	F42Z-8575-BA	300.82	2MT-002600-011	THERMOSTAT
6 154 134	FS8290	1MT-829100-110	THERMOSWITCH	F5AF-12A648-AA	TS4037	1MT-004037-011	TEMPERATURE SENDER UNIT
6 168 439	FS8200	1MT-820928-701	THERMOSWITCH	F5AF-12A648-AB	TS4037	1MT-004037-011	TEMPERATURE SENDER UNIT
6 169 111	FS8200	1MT-820928-701	THERMOSWITCH	FZRZ-8575-B	265.82	2MT-002637-011	THERMOSTAT
6 169 112	FS8200	1MT-820928-701	THERMOSWITCH	HE4199152A	254.88	2MT-002597-011	THERMOSTAT
6 169 113	FS8200	1MT-820928-701	THERMOSWITCH	XM21-10884-BA	TS4092	1MT-004092-001	TEMPERATURE SENDER UNIT
6 186 463	FS8040	1MT-804102-971	THERMOSWITCH	XM34-8575-AB	300.82	2MT-002600-011	THERMOSTAT
6 186 464	FS8040	1MT-804102-971	THERMOSWITCH	XS6E-8575-AC	265.82	2MT-002637-011	THERMOSTAT
6 496 665	FS8200	1MT-820928-701	THERMOSWITCH	XS6E-8575-Ae	265.82	2MT-002637-011	THERMOSTAT
6077-897	FS7057	1MT-705103-981	THERMOSWITCH	YU3Z-8575-BA	VT246.88	2MT-002588-011	THERMOSTAT
6077-985	FS7057	1MT-705103-981	THERMOSWITCH				
6104 435	FS7056	1MT-705100-951	THERMOSWITCH				
6M21-10884-AA	TS4092	1MT-004092-001	TEMPERATURE SENDER UNIT	<b>FIAT</b>			
7 001 604	FS8040	1MT-804102-971	THERMOSWITCH	4067872	TS3041	1MT-003041-011	TEMPERATURE SENDER UNIT
7 001 605	FS8290	1MT-829100-110	THERMOSWITCH	4108672	TS3041	1MT-003041-011	TEMPERATURE SENDER UNIT
7 001 608	FS8200	1MT-820928-701	THERMOSWITCH	4276954	TS3041	1MT-003041-011	TEMPERATURE SENDER UNIT
7 001 611	FS8040	1MT-804102-971	THERMOSWITCH	4349082	TS3041	1MT-003041-011	TEMPERATURE SENDER UNIT
7 158 126	TS4037	1MT-004037-011	TEMPERATURE SENDER UNIT	4407984	TS3041	1MT-003041-011	TEMPERATURE SENDER UNIT
7 215 818	FS7870	1MT-787951-020	THERMOSWITCH	4409505	TS3041	1MT-003041-011	TEMPERATURE SENDER UNIT
77FB-10884-AA	TS3057	1MT-003057-011	TEMPERATURE SENDER UNIT	4414600	TS3041	1MT-003041-011	TEMPERATURE SENDER UNIT
77FB-8B607-A3D	FS7057	1MT-705103-981	THERMOSWITCH	4448131	TS3041	1MT-003041-011	TEMPERATURE SENDER UNIT
78FB-000-8B607-A	FS7057	1MT-705103-981	THERMOSWITCH	5972332	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT
81AB-10884-AA	TS3105	1MT-003105-011	TEMPERATURE SENDER UNIT	7542186	TS3121	1MT-003121-011	TEMPERATURE SENDER UNIT
81AB-8B607-A1A	FS7057	1MT-705103-981	THERMOSWITCH	7548005	TS3121	1MT-003121-011	TEMPERATURE SENDER UNIT
81AB-8B607-A2A	FS7057	1MT-705103-981	THERMOSWITCH	7588802	TS3041	1MT-003041-011	TEMPERATURE SENDER UNIT
81EB-10884-AA	TS3057	1MT-003057-011	TEMPERATURE SENDER UNIT	7588882	TS3041	1MT-003041-011	TEMPERATURE SENDER UNIT
83GB-8B607-A2B	FS7052	1MT-705867-600	THERMOSWITCH	7588883	TS3121	1MT-003121-011	TEMPERATURE SENDER UNIT
84AB-10884-BA	TS3105	1MT-003105-011	TEMPERATURE SENDER UNIT	7770239	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT
84FF-8575-BA	VT288.87	2MT-002585-011	THERMOSTAT	7778980	TS4050	1MT-004050-011	TEMPERATURE SENDER UNIT
85AB-8B607-A2B	FS8200	1MT-820928-701	THERMOSWITCH	7548005	TS3041	1MT-003041-011	TEMPERATURE SENDER UNIT
85AB-8B607-A3A	FS8200	1MT-820928-701	THERMOSWITCH	50000102	TS3041	1MT-003041-011	TEMPERATURE SENDER UNIT
85AB-8B607-A3A	FS8200	1MT-820928-701	THERMOSWITCH	55199579	TS4050	1MT-004050-011	TEMPERATURE SENDER UNIT
85AB-8B607-A3B	FS8200	1MT-820928-701	THERMOSWITCH	60808142	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT
85FB-10884-AA	TS3130	1MT-003130-011	TEMPERATURE SENDER UNIT	98424793	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT
85GB-8B607-B1A	FS8040	1MT-804102-971	THERMOSWITCH	553621200	TS3200	1MT-003200-011	TEMPERATURE SENDER UNIT
86AB-10884-AA	TS3130	1MT-003130-011	TEMPERATURE SENDER UNIT	6553621200	TS3200	1MT-003200-011	TEMPERATURE SENDER UNIT
				7910247507	TS3100	1MT-003100-011	TEMPERATURE SENDER UNIT

**NOTE:** Only the most common applications are listed. Please check application guide for product specific reference, at [www.hella.co.za](http://www.hella.co.za)

\*As alternative in hot climate zones

# OE REFERENCE LIST

OEM NUMBER	SHORT CODE	PART NUMBER	PRODUCT	OEM NUMBER	SHORT CODE	PART NUMBER	PRODUCT
<b>GM / CHEVROLET / DAEWOO</b>				<b>HONDA</b>			
75039	284.82	2MT-002579-011	THERMOSTAT	19300-PB2-003	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
1338033	VT288.87	2MT-002585-011	THERMOSTAT	19300-PB2-004	254.82	2MT-002575-011	THERMOSTAT
1338093	260.82	2MT-002631-011	THERMOSTAT	19300-PB2-004	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
2485613	284.82	2MT-002579-011	THERMOSTAT	19300-PB2-013	254.82	2MT-002575-011	THERMOSTAT
4408334	VT271.89	2MT-002628-011	THERMOSTAT	19300-PB2-013	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
08966485	VT288.87	2MT-002585-011	THERMOSTAT	19300-PB2-014	254.82	2MT-002575-011	THERMOSTAT
70998113	284.82	2MT-002579-011	THERMOSTAT	19300-PB2-014	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
93206807	VT221.82	2MT-002589-011	THERMOSTAT	19300-PB2-023	254.82	2MT-002575-011	THERMOSTAT
93275736	VT297.92	2MT-002646-021	THERMOSTAT	19300-PB2-023	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
93275736	VT313.92	2MT-002646-011	THERMOSTAT	19300-PB2-024	254.82	2MT-002575-011	THERMOSTAT
005 542 10 17	TS3140	1MT-003140-011	TEMPERATURE SENDER UNIT	19300-PB2-024	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
005 542 26 17	TS3140	1MT-003140-011	TEMPERATURE SENDER UNIT	19300-PE3-013	VT253.77	2MT-002582-011	THERMOSTAT
03 038 094	VT217.92	2MT-002620-011	THERMOSTAT	19300-PE3-024	VT253.77	2MT-002582-011	THERMOSTAT
03 439 088	TS3029	1MT-003029-011	TEMPERATURE SENDER UNIT	19300-PEO-013	VT253.77	2MT-002582-011	THERMOSTAT
09 110 309	FS8210	1MT-821928-201	THERMOSWITCH	19300-PEO-024	VT253.77	2MT-002582-011	THERMOSTAT
12 146 897	TS4050	1MT-004050-011	TEMPERATURE SENDER UNIT	19300-PLZ-004	VT253.77	2MT-002582-011	THERMOSTAT
12 191 170	TS4050	1MT-004050-011	TEMPERATURE SENDER UNIT	19300-PM3-003	VT253.77	2MT-002582-011	THERMOSTAT
12 608 814	TS4050	1MT-004050-011	TEMPERATURE SENDER UNIT	19300-PM3-004	VT253.77	2MT-002582-011	THERMOSTAT
12 611 420	TS4050	1MT-004050-011	TEMPERATURE SENDER UNIT	19300-PR3-004	VT253.77	2MT-002582-011	THERMOSTAT
15 326 388	TS4050	1MT-004050-011	TEMPERATURE SENDER UNIT	19300-PT0-003	VT253.77	2MT-002582-011	THERMOSTAT
15 404 280	TS4050	1MT-004050-011	TEMPERATURE SENDER UNIT	19300-PT0-004	VT253.77	2MT-002582-011	THERMOSTAT
25 036 898	TS4050	1MT-004050-011	TEMPERATURE SENDER UNIT	19301-P08-000	VT253.77	2MT-002582-011	THERMOSTAT
34 390 88	TS3029	1MT-003029-011	TEMPERATURE SENDER UNIT	19301-P08-305	VT253.77	2MT-002582-011	THERMOSTAT
52 253 085	207.82	2MT-002570-011	THERMOSTAT	19301-P08-306	VT253.77	2MT-002582-011	THERMOSTAT
606 203 02 75	VT281.85	2MT-002626-011	THERMOSTAT	19301-P08-315	VT253.77	2MT-002582-011	THERMOSTAT
661 542 30 17	TS3140	1MT-003140-011	TEMPERATURE SENDER UNIT	19301-P08-316	VT253.77	2MT-002582-011	THERMOSTAT
90 080 939	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	19301-P10-307	VT253.77	2MT-002582-011	THERMOSTAT
90 087 398	FS7055	1MT-705959-000	THERMOSWITCH	19301-PIK-307	VT253.77	2MT-002582-011	THERMOSTAT
90 108 636	FS7056	1MT-705100-951	THERMOSWITCH	19301-PAA-305	VT253.77	2MT-002582-011	THERMOSTAT
90 200 836	VT217.92	2MT-002620-011	THERMOSTAT	19301-PAA-306	VT253.77	2MT-002582-011	THERMOSTAT
90 242 277	FS7400	1MT-740100-951	THERMOSWITCH	19301-PDF-305	VT253.77	2MT-002582-011	THERMOSTAT
90 246 852	TS3029	1MT-003029-011	TEMPERATURE SENDER UNIT	19301-PLC-305	VT253.77	2MT-002582-011	THERMOSTAT
90 339 408	FS7610	1MT-761100-110	THERMOSWITCH	34850-82011	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT
90 339 500	FS7660	1MT-766100-951	THERMOSWITCH	37750-611-154	TS3200	1MT-003200-011	TEMPERATURE SENDER UNIT
90 357 304	FS7670	1MT-767951-200	THERMOSWITCH	37750-PCI-004	TS3135	1MT-003135-011	TEMPERATURE SENDER UNIT
90 410 792	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	37760-P00-003	FS8110	1MT-811938-801	THERMOSWITCH
90 510 183	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	37760-P00-004	FS8110	1MT-811938-801	THERMOSWITCH
91 171 786	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT	37773-PH1-003	FS8100	1MT-810928-071	THERMOSWITCH
91 61 054	FS8320	1MT-832879-201	THERMOSWITCH	37773-PH1-621	FS8100	1MT-810928-071	THERMOSWITCH
92 017 805	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	37773-PLZ-E01	FS8110	1MT-811938-801	THERMOSWITCH
92 061 480	TS3029	1MT-003029-011	TEMPERATURE SENDER UNIT	37773-PT0-004	FS8100	1MT-810928-071	THERMOSWITCH
92 061 480	TS3029	1MT-003029-011	TEMPERATURE SENDER UNIT	37870-PST-G00	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT
92 063 941	TS3029	1MT-003029-011	TEMPERATURE SENDER UNIT	37870-PDF-E01	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT
93 180 124	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT	8-94247-437-1	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT
93 203 244	TS3029	1MT-003029-011	TEMPERATURE SENDER UNIT	<b>HYUNDAI</b>			
93 247 291	TS4050	1MT-004050-011	TEMPERATURE SENDER UNIT	220-35710	TS4020	1MT-004020-011	TEMPERATURE SENDER UNIT
93 358 883	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	25360-37100	FS8680	1MT-868850-001	THERMOSWITCH
94 205 866	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	25500 02500	VT256.82	2MT-002568-011	THERMOSTAT
94 214 962	VT318.82	2MT-002591-011	THERMOSTAT	25500-11200	254.82	2MT-002575-011	THERMOSTAT
94 247 437	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT	25500-11200	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
94 618 609	207.92	2MT-002617-011	THERMOSTAT	25500-21210	254.88	2MT-002597-011	THERMOSTAT
94 841 819	S3077	1MT-003077-011	TEMPERATURE SENDER UNIT	25500-21220	254.88	2MT-002597-011	THERMOSTAT
94 846 018	FS3722	1MT-372294-851	THERMOSWITCH	25500-23001	316.82	2MT-002605-011	THERMOSTAT
94 847 362	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT	25500-23010	316.82	2MT-002605-011	THERMOSTAT
94 847 543	TS3203	1MT-003203-011	TEMPERATURE SENDER UNIT	25500-24000	254.82	2MT-002575-011	THERMOSTAT
94235 691	TS3133	1MT-003133-011	TEMPERATURE SENDER UNIT	25500-24000	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
94237 861	TS3133	1MT-003133-011	TEMPERATURE SENDER UNIT	25500-33020	254.88	2MT-002597-011	THERMOSTAT
96 056 758	TS4065	1MT-004065-011	TEMPERATURE SENDER UNIT	25500-33040	254.88	2MT-002597-011	THERMOSTAT
96 062 513	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT	25500-33050	254.88	2MT-002597-011	THERMOSTAT
96 067 371	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT	25500-33060	254.88	2MT-002597-011	THERMOSTAT
96 177 604	TS3125	1MT-003125-011	TEMPERATURE SENDER UNIT	39220-22010	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT
96 181 508	TS4050	1MT-004050-011	TEMPERATURE SENDER UNIT	94650-21010	TS3062	1MT-003062-011	TEMPERATURE SENDER UNIT
96 182 634	TS4050	1MT-004050-011	TEMPERATURE SENDER UNIT	94650-32510	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT
97 089 891	VT318.82	2MT-002591-011	THERMOSTAT	94650-32520	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT
97 361 770	VT318.82	2MT-002591-011	THERMOSTAT	97650-32500	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT
<b>HONDA</b>				AA850-18510	TS3200	1MT-003200-011	TEMPERATURE SENDER UNIT
19300-PAO-003	254.82	2MT-002575-011	THERMOSTAT	AA92E-18510	TS3203	1MT-003203-011	TEMPERATURE SENDER UNIT
19300-PAO-003	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)	MD005317	254.82	2MT-002575-011	THERMOSTAT
19300-PB2-003	254.82	2MT-002575-011	THERMOSTAT	MD005317	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)



## OE REFERENCE LIST

OEM NUMBER	SHORT CODE	PART NUMBER	PRODUCT	OEM NUMBER	SHORT CODE	PART NUMBER	PRODUCT
<b>ISUZU</b>				<b>LAND ROVER</b>			
13770051	260.82	2MT-002631-011	THERMOSTAT	MEK100170L	TS4075	1MT-004075-011	TEMPERATURE SENDER UNIT
94214962	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)	MEK500130	TS4075	1MT-004075-011	TEMPERATURE SENDER UNIT
5-86202-839-0	FS8110	1MT-811938-801	THERMOSWITCH	NSC100870L	TS4075	1MT-004075-011	TEMPERATURE SENDER UNIT
8 94214 962 0	VT318.82	2MT-002591-011	THERMOSTAT	PEL10016	317.88	2MT-002576-011	THERMOSTAT
8 94247 437 1	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT	PRC3359	FS7059	1MT-705115-119	THERMOSWITCH
8 97089 891 0	VT318.82	2MT-002591-011	THERMOSTAT	PRC3541	FS7055	1MT-705959-000	THERMOSWITCH
8 97361 770 0	VT318.82	2MT-002591-011	THERMOSTAT	STC3338	VT225.80	2MT-002574-011	THERMOSTAT
8-92061-480-0	TS3029	1MT-003029-011	TEMPERATURE SENDER UNIT	<b>MAN</b>			
8-92063-941-0	TS3029	1MT-003029-011	TEMPERATURE SENDER UNIT	51 064 020 002	207.82	2MT-002570-011	THERMOSTAT
8-94205-866-0	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	51 064 020 042	VT232.70	2MT-002586-011	THERMOSTAT
<b>IVECO</b>				<b>MAZDA</b>			
4684390	235.79	2MT-002635-011	THERMOSTAT	0 118 18 510	TS3200	1MT-003200-011	TEMPERATURE SENDER UNIT
98492868	VT234.75	2MT-002584-011	THERMOSTAT	0 118 89 181	TS3200	1MT-003200-011	TEMPERATURE SENDER UNIT
98492873	VT234.75	2MT-002584-011	THERMOSTAT	0 259 18 510	TS3201	1MT-003201-011	TEMPERATURE SENDER UNIT
99460557	FS7260	1MT-726928-700	THERMOSWITCH	0 259 89 181	TS3201	1MT-003201-011	TEMPERATURE SENDER UNIT
60 713 535	235.79	2MT-002635-011	THERMOSTAT	0187-15-171	VT264.82	2MT-002625-011	THERMOSTAT
616 73 540	VT234.71	2MT-002643-011	THERMOSTAT	1 E00 18 510	TS4037	1MT-004037-011	TEMPERATURE SENDER UNIT
<b>JAGUAR</b>				8 569 18 510	TS3128	6PT-009107-201	TEMPERATURE SENDER UNIT
1518627	VT218.74	2MT-002571-011	THERMOSTAT	81-73-99-152A	254.88	2MT-002597-011	THERMOSTAT
1607993	VT218.74	2MT-002571-011	THERMOSTAT	81-73-99-152B	254.88	2MT-002597-011	THERMOSTAT
22037676	VT232.87	2MT-002614-011	THERMOSTAT	8569-18510	TS3128	6PT-009107-201	TEMPERATURE SENDER UNIT
22037676	VT232.87	2MT-002614-011	THERMOSTAT	8A B3 15 171	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
C28067	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)	8A-B7-15-171	254.82	2MT-002575-011	THERMOSTAT
C33012	233.88	2MT-002622-011	THERMOSTAT	8A-B7-15-171	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
C37129	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)	8A-BC-15-171	254.82	2MT-002575-011	THERMOSTAT
C87129	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)	8A-BC-15-171	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
LNA 1600 AA	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT	B 308-18-840	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT
LRA 1600AA	TS4037	1MT-004037-011	TEMPERATURE SENDER UNIT	B 541-18-51X	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT
XR8 32403	TS4037	1MT-004037-011	TEMPERATURE SENDER UNIT	B 593-18-240 A	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT
<b>JEEP</b>				B541-18-510	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT
4494469	207.87	2MT-002580-011	THERMOSTAT	B574-18-840	TS4065	1MT-004065-011	TEMPERATURE SENDER UNIT
52028185	207.87	2MT-002580-011	THERMOSTAT	F S05-15-171	300.82	2MT-002600-011	THERMOSTAT
52028185AB	207.87	2MT-002580-011	THERMOSTAT	G607-18-510	TS3135	1MT-003135-011	TEMPERATURE SENDER UNIT
<b>KIA</b>				GY01-18-840A	TS4037	1MT-004037-011	TEMPERATURE SENDER UNIT
0K013-15-171	254.88	2MT-002597-011	THERMOSTAT	HE-41-99-152	254.82	2MT-002575-011	THERMOSTAT
0K201-15-171	254.82	2MT-002575-011	THERMOSTAT	HE-41-99-152	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
0K201-15-171	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)	HE-41-99-152A	254.88	2MT-002597-011	THERMOSTAT
0K201-15-171A	254.82	2MT-002575-011	THERMOSTAT	HE-41-99-152C	254.82	2MT-002575-011	THERMOSTAT
0K201-15-171A	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)	HE-41-99-152C	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
0K2A1-15-171	254.82	2MT-002575-011	THERMOSTAT	JE15-18-51X	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT
0K2A1-15-171	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)	KL01-18-51X	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT
0K2C0-15-171	254.88	2MT-002597-011	THERMOSTAT	KL01-15-171	300.82	2MT-002600-011	THERMOSTAT
0K2C0-15-171A	254.88	2MT-002597-011	THERMOSTAT	KL01-15-171 A	300.82	2MT-002600-011	THERMOSTAT
0K30E-15-171	254.88	2MT-002597-011	THERMOSTAT	N F02-18-840	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT
94650 32520	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT	Y 702 18 840	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT
AA850 18510	TS3200	1MT-003200-011	TEMPERATURE SENDER UNIT	Z ZM1-18-707	TS4037	1MT-004037-011	TEMPERATURE SENDER UNIT
KHE41-15-171	254.82	2MT-002575-011	THERMOSTAT	<b>MERCEDES BENZ / SMART</b>			
KHE41-15-171	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)	001 203 39 75	VT234.71	2MT-002643-011	THERMOSTAT
KK150-18-51X	TS3135	1MT-003135-011	TEMPERATURE SENDER UNIT	001 203 85 75	VT234.71	2MT-002643-011	THERMOSTAT
KK151 18510	TS3135	1MT-003135-011	TEMPERATURE SENDER UNIT	002 203 32 75	VT234.71	2MT-002643-011	THERMOSTAT
KK151-18-510A	TS3135	1MT-003135-011	TEMPERATURE SENDER UNIT	002 203 54 75	VT234.71	2MT-002643-011	THERMOSTAT
KK370 18510	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT	002 203 75 75	226.8	2MT-002260-011	THERMOSTAT
KK370-18-51X	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT	002 203 76 75	VT232.87	2MT-002614-011	THERMOSTAT
KKY01-18-510	TS3128	6PT-009107-201	TEMPERATURE SENDER UNIT	002 203 77 75	VT234.75	2MT-002584-011	THERMOSTAT
MB 593 18840 A	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT	002 203 80 75	226.8	2MT-002260-011	THERMOSTAT
<b>LAND ROVER</b>				002 203 81 75	VT232.87	2MT-002614-011	THERMOSTAT
6104-433	FS7057	1MT-705103-981	THERMOSWITCH	002 203 82 75	VT234.75	2MT-002584-011	THERMOSTAT
6104-434	FS7057	1MT-705103-981	THERMOSWITCH	002 203 97 75	VT234.71	2MT-002643-011	THERMOSTAT
AAU1115	TS3105	1MT-003105-011	TEMPERATURE SENDER UNIT	002 542 10 17	TS3140	1MT-003140-011	TEMPERATURE SENDER UNIT
ERR2081	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	002 542 25 17	TS3140	1MT-003140-011	TEMPERATURE SENDER UNIT
ERR3291	VT305.88	2MT-002629-011	THERMOSTAT	002 542 73 17	TS3090	1MT-003090-011	TEMPERATURE SENDER UNIT
ERR3291A	VT305.88	2MT-002629-011	THERMOSTAT	002 545 793 4	FS7059	1MT-705115-119	THERMOSWITCH
ETC4761	VT205.75	2MT-002644-011	THERMOSTAT	003 203 15 75	VT234.71	2MT-002643-011	THERMOSTAT
ETC4761	VT218.74	2MT-002571-011	THERMOSTAT	003 203 29 75	VT234.71	2MT-002643-011	THERMOSTAT
MEK000030L	TS4075	1MT-004075-011	TEMPERATURE SENDER UNIT	003 203 32 75	VT234.71	2MT-002643-011	THERMOSTAT
				003 203 48 75	VT234.71	2MT-002643-011	THERMOSTAT
				003 203 69 75	VT232.87	2MT-002614-011	THERMOSTAT

**NOTE:** Only the most common applications are listed. Please check application guide for product specific reference, at [www.hella.co.za](http://www.hella.co.za)

\*As alternative in hot climate zones

# OE REFERENCE LIST

OEM NUMBER	SHORT CODE	PART NUMBER	PRODUCT
<b>MERCEDES BENZ / SMART</b>			
003 203 74 75	VT234.71	2MT-002643-011	THERMOSTAT
003 203 79 75	VT234.71	2MT-002643-011	THERMOSTAT
004 203 84 75	VT234.71	2MT-002643-011	THERMOSTAT
005 153 62 28	TS4020	1MT-004020-011	TEMPERATURE SENDER UNIT
005 203 28 75	VT234.71	2MT-002643-011	THERMOSTAT
005 203 29 75	VT225.80	2MT-002574-011	THERMOSTAT
005 203 30 75	VT305.88	2MT-002629-011	THERMOSTAT
005 542 26 17	TS3140	1MT-003140-011	TEMPERATURE SENDER UNIT
006 545 152 4	FS8729	6ZT-008729-001	THERMOSWITCH
006 545 402 4	FS8729	6ZT-008729-001	THERMOSWITCH
006 545 422 4	FS8330	1MT-833100-107	THERMOSWITCH
008 542 32 17	TS4003	1MT-004003-011	TEMPERATURE SENDER UNIT
013 542 78 17	TS4092	1MT-004092-001	TEMPERATURE SENDER UNIT
02 203 91 75	VT234.71	2MT-002643-011	THERMOSTAT
102 200 08 15	VT232.87	2MT-002614-011	THERMOSTAT
102 200 09 15	VT232.87	2MT-002614-011	THERMOSTAT
102 200 14 15	VT232.87	2MT-002614-011	THERMOSTAT
102 200 15 15	VT232.87	2MT-002614-011	THERMOSTAT
102 200 19 15	VT232.87	2MT-002614-011	THERMOSTAT
110 200 06 15	VT232.87	2MT-002614-011	THERMOSTAT
116 200 00 15	VT234.75	2MT-002584-011	THERMOSTAT
116 200 01 15	VT234.75	2MT-002584-011	THERMOSTAT
122 153 01 28	TS4020	1MT-004020-011	TEMPERATURE SENDER UNIT
132 153 00 28	TS4020	1MT-004020-011	TEMPERATURE SENDER UNIT
601 200 00 15	VT281.85	2MT-002626-011	THERMOSTAT
606 203 02 75	VT281.85	2MT-002626-011	THERMOSTAT
615 200 13 15	226.80	2MT-002260-011	THERMOSTAT
615 200 14 15	226.80	2MT-002260-011	THERMOSTAT
616 200 04 15	226.80	2MT-002260-011	THERMOSTAT
616 200 18 15	226.80	2MT-002260-011	THERMOSTAT
617 200 03 15	226.80	2MT-002260-011	THERMOSTAT
617 200 08 15	226.80	2MT-002260-011	THERMOSTAT
617 200 18 15	226.80	2MT-002260-011	THERMOSTAT
661 542 30 17	TS3140	1MT-003140-011	TEMPERATURE SENDER UNIT
<b>MINI</b>			
136 277 91 951		1MT-004027-011	TEMPERATURE SENDER UNIT
<b>MITSUBISHI</b>			
94650-32510	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT
94650-32520	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT
MB007639	FS3744	1MT-374485-801	THERMOSWITCH
MD 091056	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT
MD-001380	TS3062	1MT-003062-011	TEMPERATURE SENDER UNIT
MD005131	254.82	2MT-002575-011	THERMOSTAT
MD005131	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
MD005371	254.82	2MT-002575-011	THERMOSTAT
MD005371	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
MD015299	220.76	2MT-002606-011	THERMOSTAT
MD094120	220.82	2MT-002611-011	THERMOSTAT
MD-095556	TS3062	1MT-003062-011	TEMPERATURE SENDER UNIT
MD-177572	TS4020	1MT-004020-011	TEMPERATURE SENDER UNIT
MD-182467	TS4020	1MT-004020-011	TEMPERATURE SENDER UNIT
MD997222	220.76	2MT-002606-011	THERMOSTAT
MD997605	220.76	2MT-002606-011	THERMOSTAT
ME-202052	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT
MN-980152	TS4092	1MT-004092-001	TEMPERATURE SENDER UNIT
MN-980264	TS4092	1MT-004092-001	TEMPERATURE SENDER UNIT
MR-985034	TS4020	1MT-004020-011	TEMPERATURE SENDER UNIT
MS997224	220.82	2MT-002611-011	THERMOSTAT
<b>NISSAN</b>			
7700872554	VT271.89	2MT-002628-011	THERMOSTAT
11023-V0700	TS4001	1MT-004001-011	TEMPERATURE SENDER UNIT
21200 05D11	233.88	2MT-002622-011	THERMOSTAT
21200 05D12	233.88	2MT-002622-011	THERMOSTAT
21200 49701	233.88	2MT-002622-011	THERMOSTAT
21200 4M500	VT256.82	2MT-002568-011	THERMOSTAT
21200 58G01	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
21200 58G05	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)

OEM NUMBER	SHORT CODE	PART NUMBER	PRODUCT
<b>NISSAN</b>			
21200 58G06	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
21200 62401	233.88	2MT-002622-011	THERMOSTAT
21200 77A05	VT256.82	2MT-002568-011	THERMOSTAT
21200 77A61	VT256.82	2MT-002568-011	THERMOSTAT
21200 77A65	VT256.82	2MT-002568-011	THERMOSTAT
21200 77A66	VT256.82	2MT-002568-011	THERMOSTAT
21200 96012	233.88	2MT-002622-011	THERMOSTAT
21200 G2400	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
21200 G2401	233.88	2MT-002622-011	THERMOSTAT
21200 V0700	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
21200 W3300	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
21200 Y9701	233.88	2MT-002622-011	THERMOSTAT
21200-00QAA	VT271.89	2MT-002628-011	THERMOSTAT
21200-01B00	264.84	2MT-002596-011	THERMOSTAT
21200-05B00	VT264.82	2MT-002625-011	THERMOSTAT
21200-05D01	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
21200-05D10	220.88	2MT-002599-011	THERMOSTAT
21200-2H600	260.82	2MT-002631-011	THERMOSTAT
21200-41B00	260.82	2MT-002631-011	THERMOSTAT
21200-57J00	301.82	2MT-002640-011	THERMOSTAT
21200-57J15	301.82	2MT-002640-011	THERMOSTAT
21200-76204	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
21200-77A00	VT256.75	2MT-002621-011	THERMOSTAT
21200-77A60	VT256.75	2MT-002621-011	THERMOSTAT
21200-77A63	VT256.75	2MT-002621-011	THERMOSTAT
21200-77A65	VT256.75	2MT-002621-011	THERMOSTAT
21200-85G00	260.82	2MT-002631-011	THERMOSTAT
21200-P7901	260.82	2MT-002631-011	THERMOSTAT
21200-P7990	260.82	2MT-002631-011	THERMOSTAT
21200-V0100	260.82	2MT-002631-011	THERMOSTAT
21200-V0200	260.82	2MT-002631-011	THERMOSTAT
21200-V0201	260.82	2MT-002631-011	THERMOSTAT
21200-W3305	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
21202-96002	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
21207-96002	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
21208-96001	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
21208-96002	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
21209 96001	233.88	2MT-002622-011	THERMOSTAT
21209-96002	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
21209-96012	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
212200 05D02	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
21595 01A00	FS7920	1MT-792928-701	THERMOSWITCH
21595 36A00	FS7910	1MT-791877-701	THERMOSWITCH
21595 60A00	FS7880	1MT-788928-701	THERMOSWITCH
22630-00QAH	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
22630-0M200	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
22630-10G00	TS4001	1MT-004001-011	TEMPERATURE SENDER UNIT
22630-1W400	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
22630-43Y00	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
22630-44B10	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
22630-44B20	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
22630-71L00	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
22630-95F0B	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
22630-99B00	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
22630-99B10	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
22630-D9701	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
22630-D9702	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
22630-ED000	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
22630-G2402	TS4001	1MT-004001-011	TEMPERATURE SENDER UNIT
22630-JN00A	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
22630-N4200	TS4001	1MT-004001-011	TEMPERATURE SENDER UNIT
22630-N4200	TS4001	1MT-004001-011	TEMPERATURE SENDER UNIT
25080-89900	TS3131	1MT-003131-011	TEMPERATURE SENDER UNIT
25080-89902	TS3202	1MT-003202-011	TEMPERATURE SENDER UNIT
25080-89903	TS3120	1MT-003120-011	TEMPERATURE SENDER UNIT
25080-F3900	TS3120	1MT-003120-011	TEMPERATURE SENDER UNIT
25251-37700	TS3131	1MT-003131-011	TEMPERATURE SENDER UNIT
<b>OPEL</b>			
896485	VT288.87	1MT-004027-011	TEMPERATURE SENDER UNIT

HELLA TEMPERATURE SENDER UNITS

\*As alternative in hot climate zones

NOTE: Only the most common applications are listed. Please check application guide for product specific reference, at [www.hella.co.za](http://www.hella.co.za)

## OE REFERENCE LIST

OEM NUMBER	SHORT CODE	PART NUMBER	PRODUCT	OEM NUMBER	SHORT CODE	PART NUMBER	PRODUCT
<b>OPEL</b>				<b>PEUGEOT / CITROËN</b>			
1338016	207.92	2MT-002617-011	THERMOSTAT	1337.47	206.82	2MT-002609-011	THERMOSTAT
1338018	207.87	2MT-002580-011	THERMOSTAT	1337.49	206.75	2MT-002603-011	THERMOSTAT
1338024	VT288.80	2MT-002573-011	THERMOSTAT	1338.23	VT288.80	2MT-002573-011	THERMOSTAT
1338033	VT288.87	2MT-002585-011	THERMOSTAT	1338.37	252.82	2MT-002624-011	THERMOSTAT
1338041	207.87	2MT-002580-011	THERMOSTAT	1338.57	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT
1338042	VT217.92	2MT-002620-011	THERMOSTAT	1338.83	252.82	2MT-002624-011	THERMOSTAT
1338052	VT217.92	2MT-002620-011	THERMOSTAT	91500723	206.82	2MT-002609-011	THERMOSTAT
1338053	VT217.92	2MT-002620-011	THERMOSTAT	1338 G4	TS4020	1MT-004020-011	TEMPERATURE SENDER UNIT
1338055	207.87	2MT-002580-011	THERMOSTAT	1338 G4	TS4020	1MT-004020-011	TEMPERATURE SENDER UNIT
1338055	207.87	2MT-002580-011	THERMOSTAT	7910 011 101	252.82	2MT-002624-011	THERMOSTAT
1338059	VT327.82	2MT-002601-011	THERMOSTAT	7910 016 560	252.82	2MT-002624-011	THERMOSTAT
1338061	VT288.80	2MT-002573-011	THERMOSTAT	91 514 046	FS7052	1MT-705867-600	THERMOSWITCH
1338061	VT288.82	2MT-002590-011	THERMOSTAT	91 514 549	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT
1338062	VT327.82	2MT-002601-011	THERMOSTAT	95 492 854	FS7055	1MT-705959-000	THERMOSWITCH
1338070	VT221.82	2MT-002589-011	THERMOSTAT	95 632 734	FS7055	1MT-705959-000	THERMOSWITCH
1338076	VT225.80	2MT-002574-011	THERMOSTAT	96 123 564	FS8210	1MT-821928-201	THERMOSWITCH
1338082	VT225.80	2MT-002574-011	THERMOSTAT	<b>PORSCHE</b>			
1338091	VT225.80	2MT-002574-011	THERMOSTAT	944 106 019 00	VT288.80	2MT-002573-011	THERMOSTAT
1338093	260.82	2MT-002631-011	THERMOSTAT	944 106 129 05	VT288.80	2MT-002573-011	THERMOSTAT
1338331	VT399.92	2MT-003999-201	THERMOSTAT	944 106 129 07	VT288.80	2MT-002573-011	THERMOSTAT
4220309	VT288.82	2MT-002590-011	THERMOSTAT	944 606 125 00	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT
4408334	VT271.89	2MT-002628-011	THERMOSTAT	955 106 113 00	VT225.80	2MT-002574-011	THERMOSTAT
4500823	235.79	2MT-002635-011	THERMOSTAT	955 106 125 00	TS4092	1MT-004092-001	TEMPERATURE SENDER UNIT
90509110	VT225.80	2MT-002574-011	THERMOSTAT	955 106 125 01	TS4092	1MT-004092-001	TEMPERATURE SENDER UNIT
90573326	VT399.92	2MT-003999-201	THERMOSTAT	997 606 410 00	TS4092	1MT-004092-001	TEMPERATURE SENDER UNIT
96143939	VT217.82	2MT-002572-011	THERMOSTAT	<b>RENAULT</b>			
13 38 074	VT318.82	2MT-002591-011	THERMOSTAT	7910 245 553	TS3100	1MT-003100-011	TEMPERATURE SENDER UNIT
13 38 444	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	2263 044 B20	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
13 38 448	TS3029	1MT-003029-011	TEMPERATURE SENDER UNIT	23 5 012 920	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
13 38 451	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	5000 815 791	235.79	2MT-002635-011	THERMOSTAT
13 38 458	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	5001 870 250	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
13 38 466	226.80	2MT-002260-011	THERMOSTAT	7700 582 688	TS4001	1MT-004001-011	TEMPERATURE SENDER UNIT
13 38 505	TS3133	1MT-003133-011	TEMPERATURE SENDER UNIT	7700 657 955	VT232.87	2MT-002614-011	THERMOSTAT
13 38 506	TS3133	1MT-003133-011	TEMPERATURE SENDER UNIT	7700 703 136	VT232.87	2MT-002614-011	THERMOSTAT
13 38 507	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT	7700 722 762	247.86	2MT-002604-011	THERMOSTAT
13 41 002	FS7056	1MT-705100-951	THERMOSWITCH	7700 767 336	TS3100	1MT-003100-011	TEMPERATURE SENDER UNIT
13 41 003	FS7055	1MT-705959-000	THERMOSWITCH	7700 782 503	FS8210	1MT-821928-201	THERMOSWITCH
13 41 007	FS7056	1MT-705100-951	THERMOSWITCH	7700 812 371	FS8210	1MT-821928-201	THERMOSWITCH
13 41 010	FS8010	1MT-801959-001	THERMOSWITCH	7700 839 072	FS8320	1MT-832879-201	THERMOSWITCH
13 41 011	FS7400	1MT-740100-951	THERMOSWITCH	7700 872 554	VT271.89	2MT-002628-011	THERMOSTAT
13 41 017	FS7400	1MT-740100-951	THERMOSWITCH	7700 872 635	VT271.89	2MT-002628-011	THERMOSTAT
13 41 023	FS7660	1MT-766100-951	THERMOSWITCH	7701 026 647	235.79	2MT-002635-011	THERMOSTAT
13 41 025	FS7610	1MT-761100-110	THERMOSWITCH	7701 036 113	FS8320	1MT-832879-201	THERMOSWITCH
13 42 561	TS3029	1MT-003029-011	TEMPERATURE SENDER UNIT	7701 042 512	235.79	2MT-002635-011	THERMOSTAT
13 42 568	TS3029	1MT-003029-011	TEMPERATURE SENDER UNIT	7701 053 991	TS4050	1MT-004050-011	TEMPERATURE SENDER UNIT
18 46 326	FS7670	1MT-767951-200	THERMOSWITCH	7701 058 398	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT
42 94 280	VT318.82	2MT-002591-011	THERMOSTAT	7701 348 143	TS3100	1MT-003100-011	TEMPERATURE SENDER UNIT
44 02 309	FS8210	1MT-821928-201	THERMOSWITCH	7701 348 194	FS7052	1MT-705867-600	THERMOSWITCH
44 15 176	TS4000	1MT-004000-011	TEMPERATURE SENDER UNIT	7701 348 375	247.75	2MT-002598-011	THERMOSTAT
45 00 754	FS8320	1MT-832879-201	THERMOSWITCH	7701 349 173	VT232.87	2MT-002614-011	THERMOSTAT
48 03 631	TS3125	1MT-003125-011	TEMPERATURE SENDER UNIT	7701 349 415	VT232.87	2MT-002614-011	THERMOSTAT
58 51 969	TS3029	1MT-003029-011	TEMPERATURE SENDER UNIT	7910 245 551	TS3100	1MT-003100-011	TEMPERATURE SENDER UNIT
62 38 317	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	8200 479 402	VT271.89	2MT-002628-011	THERMOSTAT
63 38 036	VT318.82	2MT-002591-011	THERMOSTAT	<b>ROVER</b>			
8 51 075	TS3029	1MT-003029-011	TEMPERATURE SENDER UNIT	751734	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
<b>PEUGEOT / CITROËN</b>				8389512	233.88	2MT-002622-011	THERMOSTAT
0242.12	FS7051	1MT-705826-800	THERMOSWITCH	ERR2081	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT
0242.20	TS3100	1MT-003100-011	TEMPERATURE SENDER UNIT	GTR120	TS3105	1MT-003105-011	TEMPERATURE SENDER UNIT
0242.46	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	GTR141	TS3135	1MT-003135-011	TEMPERATURE SENDER UNIT
0242.46	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	GTR142	TS3135	1MT-003135-011	TEMPERATURE SENDER UNIT
1264.03	FS7052	1MT-705867-600	THERMOSWITCH	GTR199	TS3105	1MT-003105-011	TEMPERATURE SENDER UNIT
1264.04	FS7052	1MT-705867-600	THERMOSWITCH	GTR204	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT
1264.14	FS7052	1MT-705867-600	THERMOSWITCH	GTS101	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
1264.20	FS7054	1MT-705958-000	THERMOSWITCH	GTS108	233.88	2MT-002622-011	THERMOSTAT
1264.21	FS7055	1MT-705959-000	THERMOSWITCH	GTS108	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
1264.32	FS7260	1MT-726928-700	THERMOSWITCH	GTS280	233.77*	2MT-002636-011*	THERMOSTAT (HCZ)
1264.33	FS7250	1MT-725929-701	THERMOSWITCH	GTS-283	VT253.77	2MT-002582-011	THERMOSTAT
1264.33	FS7250	1MT-725929-701	THERMOSWITCH	<b>NOTE:</b> Only the most common applications are listed. Please check application guide for product specific reference, at <a href="http://www.hella.co.za">www.hella.co.za</a>			
1337.34	VT232.87	2MT-002614-011	THERMOSTAT	*As alternative in hot climate zones			

# OE REFERENCE LIST

OEM NUMBER	SHORT CODE	PART NUMBER	PRODUCT	OEM NUMBER	SHORT CODE	PART NUMBER	PRODUCT
<b>ROVER</b>				<b>SUZUKI</b>			
GTS287	VT225.80	2MT-002574-011	THERMOSTAT	17600-85831	254.82	2MT-002575-011	THERMOSTAT
GTS-300	VT253.77	2MT-002582-011	THERMOSTAT	17600-85831	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
GTS301	317.88	2MT-002576-011	THERMOSTAT	17600-85831	VT246.82	2MT-002615-011	THERMOSTAT
PEJ100110	FS8110	1MT-811938-801	THERMOSWITCH	17670-79100	254.88	2MT-002597-011	THERMOSTAT
PEJ100120	FS8110	1MT-811938-801	THERMOSWITCH	17670-79101	254.88	2MT-002597-011	THERMOSTAT
TR274	FS8110	1MT-811938-801	THERMOSWITCH	17670-83020	254.88	2MT-002597-011	THERMOSTAT
<b>SAAB</b>				<b>TOYOTA / DAIHATSU</b>			
15 404 280	TS4050	1MT-004050-011	TEMPERATURE SENDER UNIT	89428-52010	FS8720	1MT-872900-001	THERMOSWITCH
40 86 724	FS7059	1MT-705115-119	THERMOSWITCH	16340-58010	VT355.82	2MT-003558-201	THERMOSTAT
45 03 132	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	16341-87780	VT264.82	2MT-002625-011	THERMOSTAT
47 70 228	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	17570-74001	254.82	2MT-002575-011	THERMOSTAT
59 52 155	TS4050	1MT-004050-011	TEMPERATURE SENDER UNIT	17570-74001	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
85 33 226	FS7053	1MT-705928-700	THERMOSWITCH	83420-05010	TS3151	1MT-003151-011	TEMPERATURE SENDER UNIT
85 72 331	FS7059	1MT-705115-119	THERMOSWITCH	83420-12010	TS3077	1MT-003077-011	TEMPERATURE SENDER UNIT
88 00 914	TS3125	1MT-003125-011	TEMPERATURE SENDER UNIT	83420-16010	TS3062	1MT-003062-011	TEMPERATURE SENDER UNIT
88 59 233	TS3125	1MT-003125-011	TEMPERATURE SENDER UNIT	83420-16020	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT
91 08 291	TS3125	1MT-003125-011	TEMPERATURE SENDER UNIT	83420-16030	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT
93 57 021	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	83420-16040	TS3150	1MT-003150-011	TEMPERATURE SENDER UNIT
95 26 526	FS7059	1MT-705115-119	THERMOSWITCH	83420-16050	TS3151	1MT-003151-011	TEMPERATURE SENDER UNIT
95 52 878	FS7059	1MT-705115-119	THERMOSWITCH	83420-20010	TS3062	1MT-003062-011	TEMPERATURE SENDER UNIT
<b>SCANIA</b>				<b>SSANGYONG</b>			
269374	226.80	2MT-002260-011	THERMOSTAT	606 203 02 75	VT281.85	2MT-002626-011	THERMOSTAT
276012	226.80	2MT-002260-011	THERMOSTAT	<b>SUBARU</b>			
<b>SSANGYONG</b>				<b>SUZUKI</b>			
606 203 02 75	VT281.85	2MT-002626-011	THERMOSTAT	13650-51G10	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT
<b>SUBARU</b>				13650-57F00	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT
203-AA000	TS3077	1MT-003077-011	TEMPERATURE SENDER UNIT	13650-61B00	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT
21200-AA010	260.82	2MT-002631-011	THERMOSTAT	13650-78E00	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT
21200-AA040	260.82	2MT-002631-011	THERMOSTAT	13650-84101	TS4065	1MT-004065-011	TEMPERATURE SENDER UNIT
21200-AA060	260.82	2MT-002631-011	THERMOSTAT	17570-74001	254.82	2MT-002575-011	THERMOSTAT
21200-AA120	260.82	2MT-002631-011	THERMOSTAT	17570-74001	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
21200-KA010	VT264.82	2MT-002625-011	THERMOSTAT	17570-74701	254.88	2MT-002597-011	THERMOSTAT
21200-P7901	260.82	2MT-002631-011	THERMOSTAT	17600-60811	VT264.82	2MT-002625-011	THERMOSTAT
21200-V0200	260.82	2MT-002631-011	THERMOSTAT	17600-60813	254.82	2MT-002575-011	THERMOSTAT
21203-AA000	TS3203	1MT-003203-011	TEMPERATURE SENDER UNIT	17600-60813	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
21203-AA030	TS3119	1MT-003119-011	TEMPERATURE SENDER UNIT	17600-83821	254.82	2MT-002575-011	THERMOSTAT
22630-KA020	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT	17600-83821	317.82	2MT-002569-011	THERMOSTAT
4175 35500	VT264.82	2MT-002625-011	THERMOSTAT	17600-83821	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)
4175 35700	VT264.82	2MT-002625-011	THERMOSTAT	17600-83821	317.75*	2MT-002577-011*	THERMOSTAT (HCZ)
4175 37000	260.82	2MT-002631-011	THERMOSTAT	17600-83830	254.88	2MT-002597-011	THERMOSTAT
4175 37100	260.82	2MT-002631-011	THERMOSTAT	17600-83831	254.88	2MT-002597-011	THERMOSTAT
4175 37200	260.82	2MT-002631-011	THERMOSTAT	17600-83832	254.88	2MT-002597-011	THERMOSTAT
4175 37300	260.82	2MT-002631-011	THERMOSTAT	17600-83833	254.88	2MT-002597-011	THERMOSTAT
82080-4150	TS3077	1MT-003077-011	TEMPERATURE SENDER UNIT	17600-83833	254.88	2MT-002597-011	THERMOSTAT
<b>SUZUKI</b>				17600-83850	254.88	2MT-002597-011	THERMOSTAT
13650-51G10	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT	17600-83851	254.88	2MT-002597-011	THERMOSTAT
13650-57F00	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT	<b>HELLA TEMPERATURE SENDER UNITS</b>			
13650-61B00	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT	*As alternative in hot climate zones			
13650-78E00	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT	<b>NOTE:</b> Only the most common applications are listed. Please check application			
13650-84101	TS4065	1MT-004065-011	TEMPERATURE SENDER UNIT	guide for product specific reference, at <a href="http://www.hella.co.za">www.hella.co.za</a>			
17570-74001	254.82	2MT-002575-011	THERMOSTAT				
17570-74001	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)				
17570-74701	254.88	2MT-002597-011	THERMOSTAT				
17600-60811	VT264.82	2MT-002625-011	THERMOSTAT				
17600-60813	254.82	2MT-002575-011	THERMOSTAT				
17600-60813	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)				
17600-83821	254.82	2MT-002575-011	THERMOSTAT				
17600-83821	317.82	2MT-002569-011	THERMOSTAT				
17600-83821	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)				
17600-83821	317.75*	2MT-002577-011*	THERMOSTAT (HCZ)				
17600-83830	254.88	2MT-002597-011	THERMOSTAT				
17600-83831	254.88	2MT-002597-011	THERMOSTAT				
17600-83832	254.88	2MT-002597-011	THERMOSTAT				
17600-83833	254.88	2MT-002597-011	THERMOSTAT				
17600-83850	254.88	2MT-002597-011	THERMOSTAT				
17600-83851	254.88	2MT-002597-011	THERMOSTAT				

## OE REFERENCE LIST

OEM NUMBER	SHORT CODE	PART NUMBER	PRODUCT	OEM NUMBER	SHORT CODE	PART NUMBER	PRODUCT
<b>TOYOTA / DAIHATSU</b>				<b>VW (AUDI / SEAT / SKODA)</b>			
90916-03040	254.82	2MT-002575-011	THERMOSTAT	036 121 113 A	226.80	2MT-002260-011	THERMOSTAT
90916-03040	254.82	2MT-002575-011	THERMOSTAT	03G 121 113	207.87	2MT-002580-011	THERMOSTAT
90916-03040	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)	049 919 501	TS3126	1MT-003126-011	TEMPERATURE SENDER UNIT
90916-03040	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)	056 121 113 A	VT288.80	2MT-002573-011	THERMOSTAT
90916-03043	VT253.88	2MT-002578-011	THERMOSTAT	056 121 113 D	VT288.87	2MT-002585-011	THERMOSTAT
90916-03046	VT256.82	2MT-002568-011	THERMOSTAT	059 121 113 A	VT318.88	2MT-002638-011	THERMOSTAT
90916-03046	VT256.82	2MT-002568-011	THERMOSTAT	059 121 113 B	VT318.82	2MT-002591-011	THERMOSTAT
90916-03054	254.82	2MT-002575-011	THERMOSTAT	069 121 113	229.87	2MT-002592-011	THERMOSTAT
90916-03054	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)	069 121 113 A	229.87	2MT-002592-011	THERMOSTAT
90916-03055	254.88	2MT-002597-011	THERMOSTAT	06A 919 501	TS4092	1MT-004092-001	TEMPERATURE SENDER UNIT
90916-03055	254.88	2MT-002597-011	THERMOSTAT	06A 919 501 A	TS4092	1MT-004092-001	TEMPERATURE SENDER UNIT
90916-03060	VT256.82	2MT-002568-011	THERMOSTAT	075 121 113 D	VT225.80	2MT-002574-011	THERMOSTAT
90916-03062	VT253.88	2MT-002578-011	THERMOSTAT	075 121 113 E	VT225.80	2MT-002574-011	THERMOSTAT
90916-03065	VT256.82	2MT-002568-011	THERMOSTAT	076 121 113	VT225.80	2MT-002574-011	THERMOSTAT
90916-03066	VT355.82	2MT-003558-201	THERMOSTAT	078 121 113 C	226.80	2MT-002260-011	THERMOSTAT
90916-03069	VT256.82	2MT-002568-011	THERMOSTAT	078 121 113 F	226.80	2MT-002260-011	THERMOSTAT
90916-03075	301.82	2MT-002640-011	THERMOSTAT	078 121 113 F	VT225.87	2MT-002618-011	THERMOSTAT
90916-03077	VT355.82	2MT-003558-201	THERMOSTAT	078 121 113 G	VT225.87	2MT-002618-011	THERMOSTAT
90916-03077	VT355.82	2MT-003558-201	THERMOSTAT	078 121 113 H	VT225.92	2MT-002630-011	THERMOSTAT
90916-03078	254.88	2MT-002597-011	THERMOSTAT	1 669 990	TS3170	1MT-003170-011	TEMPERATURE SENDER UNIT
90916-03083	254.82	2MT-002575-011	THERMOSTAT	111 982 410	TS3107	1MT-003107-011	TEMPERATURE SENDER UNIT
90916-03083	317.82	2MT-002569-011	THERMOSTAT	113 095-070	FS7055	1MT-705959-000	THERMOSWITCH
90916-03083	254.75*	2MT-002633-011*	THERMOSTAT (HCZ)	113 982 410	TS3107	1MT-003107-011	TEMPERATURE SENDER UNIT
90916-03083	317.75*	2MT-002577-011*	THERMOSTAT (HCZ)	113-095 073	FS7055	1MT-705959-000	THERMOSWITCH
90916-03084	301.82	2MT-002640-011	THERMOSTAT	114 095 070	FS7055	1MT-705959-000	THERMOSWITCH
90916-03090	VT256.82	2MT-002568-011	THERMOSTAT	115 982 410	TS3107	1MT-003107-011	TEMPERATURE SENDER UNIT
90916-03090	VT256.82	2MT-002568-011	THERMOSTAT	175 919 501	TS3126	1MT-003126-011	TEMPERATURE SENDER UNIT
90916-03095	VT256.82	2MT-002568-011	THERMOSTAT	175 959 481	FS7055	1MT-705959-000	THERMOSWITCH
90916-03096	VT256.82	2MT-002568-011	THERMOSTAT	175 959 481 G	FS7055	1MT-705959-000	THERMOSWITCH
90916-03102	VT355.82	2MT-003558-201	THERMOSTAT	175 959 481 K	FS7055	1MT-705959-000	THERMOSWITCH
90916-03109	VT256.82	2MT-002568-011	THERMOSTAT	191 959 481 B	FS7180	1MT-718959-000	THERMOSWITCH
90916-03115	VT256.82	2MT-002568-011	THERMOSTAT	1H0 959 481 B	FS7870	1MT-787951-020	THERMOSWITCH
90916-03125	301.82	2MT-002640-011	THERMOSTAT	1J0 959 481	FS8030	1MT-803959-001	THERMOSWITCH
90916-03129	301.82	2MT-002640-011	THERMOSTAT	1J0 959 481 A	FS8020	1MT-802971-021	THERMOSWITCH
90916-33058	VT355.82	2MT-003558-201	THERMOSTAT	251 959 481	FS7057	1MT-705103-981	THERMOSWITCH
94 853 091	FS8710	1MT-871920-001	THERMOSWITCH	251 959 481 C	FS7172	1MT-717929-601	THERMOSWITCH
94 854 974	TS3151	1MT-003151-011	TEMPERATURE SENDER UNIT	251 959 481 D	FS7172	1MT-717929-601	THERMOSWITCH
<b>VOLVO</b>				251 959 481 G	FS7171	1MT-717879-200	THERMOSWITCH
271417	VT288.87	2MT-002585-011	THERMOSTAT	251 959 481 K	FS7171	1MT-717879-200	THERMOSWITCH
273458	233.88	2MT-002622-011	THERMOSTAT	2D0 919 501 C	TS3140	1MT-003140-011	TEMPERATURE SENDER UNIT
273480	VT232.87	2MT-002614-011	THERMOSTAT	3 420 200 30	TS3150	1MT-003150-011	TEMPERATURE SENDER UNIT
273951	258.75	2MT-002608-011	THERMOSTAT	307 959 481 I	FS7180	1MT-718959-000	THERMOSWITCH
1257216	TS3126	1MT-003126-011	TEMPERATURE SENDER UNIT	321 959 481 A	FS7173	1MT-717951-020	THERMOSWITCH
1378504	FS8010	1MT-801959-001	THERMOSWITCH	321 959 481 C	FS7173	1MT-717951-020	THERMOSWITCH
2737286	229.87	2MT-002592-011	THERMOSTAT	321 959 481 D	FS7173	1MT-717951-020	THERMOSWITCH
3273458	233.88	2MT-002622-011	THERMOSTAT	321 959 481 E	FS7180	1MT-718959-000	THERMOSWITCH
3273728	229.87	2MT-002592-011	THERMOSTAT	357 919 501 A	TS4034	1MT-004034-011	TEMPERATURE SENDER UNIT
3517501	TS3126	1MT-003126-011	TEMPERATURE SENDER UNIT	4 435 010	TS4001	1MT-004001-011	TEMPERATURE SENDER UNIT
8653103	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT	6U0 919 501	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT
30711661	TS4037	1MT-004037-011	TEMPERATURE SENDER UNIT	6U0 919 501 A	TS3107	1MT-003107-011	TEMPERATURE SENDER UNIT
30874172	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT	6X0 959 481	FS8030	1MT-803959-001	THERMOSWITCH
30874182	TS4020	1MT-004020-011	TEMPERATURE SENDER UNIT	701 919 369 B	TS3170	1MT-003170-011	TEMPERATURE SENDER UNIT
1257617-9	TS3129	1MT-003129-011	TEMPERATURE SENDER UNIT	701 919 369 C	TS3170	1MT-003170-011	TEMPERATURE SENDER UNIT
1332396-9	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	823 959 481	FS7053	1MT-705928-700	THERMOSWITCH
1378504-3	FS8010	1MT-801959-001	THERMOSWITCH	867 959 481	FS7950	1MT-795959-000	THERMOSWITCH
3273480 4	VT232.87	2MT-002614-011	THERMOSTAT	8D0 959 481 B	FS8400	1MT-840951-021	THERMOSWITCH
3517501-7	TS3126	1MT-003126-011	TEMPERATURE SENDER UNIT	95VW-8B607-LA	TS3170	1MT-003170-011	TEMPERATURE SENDER UNIT
<b>VW (AUDI / SEAT / SKODA)</b>				J83 420 160 40	TS3150	1MT-003150-011	TEMPERATURE SENDER UNIT
004 435 008	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	J83 420 200 20	TS3203	1MT-003203-011	TEMPERATURE SENDER UNIT
007 121 113	VT225.87	2MT-002618-011	THERMOSTAT	J89 422 200 10	TS4027	1MT-004027-011	TEMPERATURE SENDER UNIT
022 121 113	VT225.80	2MT-002574-011	THERMOSTAT	J90916 03046	VT256.82	2MT-002568-011	THERMOSTAT
025 121 113 E	226.80	2MT-002260-011	THERMOSTAT	J9091603099	VT253.88	2MT-002578-011	THERMOSTAT
025 906 041	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT	SE 141 947 000 A	FS3046	1MT-003046-011	THERMOSWITCH
026 121 113	VT288.87	2MT-002585-011	THERMOSTAT	SE 021 947 000 1	TS3126	1MT-003126-011	TEMPERATURE SENDER UNIT
026 906 161	TS4024	1MT-004024-011	TEMPERATURE SENDER UNIT	SE021032221B	VT288.87	2MT-002585-011	THERMOSTAT
026 906 161 2	TS4024	1MT-004024-011	TEMPERATURE SENDER UNIT	X03 952 640	TS4051	1MT-004051-011	TEMPERATURE SENDER UNIT
027 919 501	TS3126	1MT-003126-011	TEMPERATURE SENDER UNIT	ZBA 959 481	FS7053	1MT-705928-700	THERMOSWITCH
028 919 501 A	TS3129	1MT-003129-011	TEMPERATURE SENDER UNIT				
030 919 501	TS4034	1MT-004034-011	TEMPERATURE SENDER UNIT				
032 121 110 B	245.87	2MT-002627-011	THERMOSTAT				
032 121 110 P	245.87	2MT-002627-011	THERMOSTAT				
034 906 161	TS4024	1MT-004024-011	TEMPERATURE SENDER UNIT				
035 121 113	226.80	2MT-002260-011	THERMOSTAT				
035 121 113 B	226.80	2MT-002260-011	THERMOSTAT				

**NOTE:** Only the most common applications are listed. Please check application guide for product specific reference, at [www.hella.co.za](http://www.hella.co.za)

\*As alternative in hot climate zones





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