

Level Measurement

Continuous level measurement - Radar transmitters

SITRANS LR250 Hygienic Encapsulated Antenna

Overview



The SITRANS LR250 hygienic encapsulated antenna is a 2 wire 25GHz pulse radar level transmitter with sanitary and hygienic approvals for continuous monitoring of liquids, slurries and pastes within the Food, Beverage, chemical, and pharmaceutical industries to a range of 20 m (66 ft) - antenna dependent. (Pictures shown with accessories - sold separately)

Benefits

- Fully encapsulated horn antenna design with FDA approved and USP Class VI compliant, TFM 1600 PTFE lens.
- $< 0.8 \mu\text{Ra}$ surface finish for maximum cleanability and hygiene requirements commonly required in sanitary environments
- Chemically resistant TFM 1600 PTFE lens is also suitable for aggressive or corrosive materials
- Approved device in accordance with 3-A, EHEDG EL Class I and/or EHEDG EL Aseptic Class I
- Cost effective replacement for transmitters made of exotic materials
- Graphical local user interface (LUI) makes operation simple with plug-and-play set-up using the intuitive Quick Start Wizard
- Industry standard process connections including ISO 2852, DIN 11851, DIN 11864-1, DIN 11864-2, DIN 11864-3 and Tuchenhangen Varivent Type F and N
- LUI displays echo profiles for diagnostic support
- 25 GHz high frequency and 2 inch (50 mm) process connection/antenna allow for easy mounting
- Insensitive to mounting location and obstructions, and less sensitive to nozzle interference
- Communication using HART, PROFIBUS PA, or FOUNDATION Fieldbus
- Process Intelligence signal processing for improved measurement reliability and Auto False-Echo Suppression of fixed obstructions
- Programming using infrared Intrinsically Safe handheld programmer or over a network using SIMATIC PDM, Emerson AMS, or Field Device Tools, such as PACTware or Fieldcare via SITRANS DTM.
- Functional Safety (SIL 2). Device suitable for use in accordance with IEC 61508 and IEC 61511

Application

SITRANS LR250 includes a graphical local user interface (LUI) that improves set-up and operation by including an intuitive Quick Start Wizard, and echo profile displays for diagnostic support. Start-up is easy using the Quick Start wizard with few parameters required for basic operation.

The 25 GHz frequency creates a narrow, focused beam allowing for smaller antenna options and decreasing sensitivity to obstructions.

SITRANS LR250's unique design allows safe and simple programming using the Intrinsically Safe handheld programmer without having to open the instrument's lid.

SITRANS LR250 measures superbly in small vessels and in tanks/vessels up to 20 m (66 ft) on materials with $\text{dk} > 1.6$.

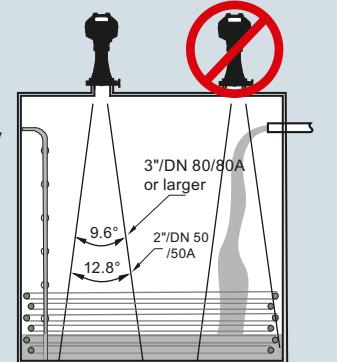
- Key Applications: applications within the Food, Beverage, Chemical and Pharmaceutical industries where sanitary, aseptic or hygienic approvals are required or easy install/clean flush antennas are preferable, such as ice cream, fruit juice, milk, beer and pharmaceutical or chemical additives and ingredients.

Configuration

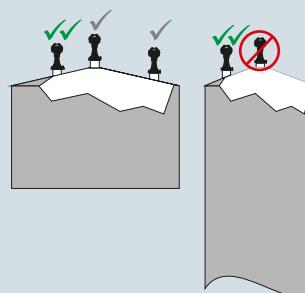
Installation

Note:

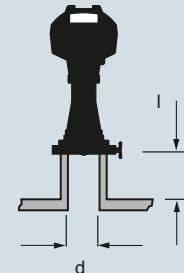
- Beam angle is the width of the cone where the energy density is half of the peak energy density.
- The peak energy density is directly in front of and in line with the antenna.
- There is a signal transmitted outside of the beam angle; therefore false targets may be detected.



Mounting unit on vessel



Mounting on a nozzle



Nozzles should be maximum l/d ratio 1:1 (Eg. 50 mm length, 50 mm diameter)

LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

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Technical specifications

Mode of Operation		Process connections
Measuring principle	Radar level measurement	Hygienic/Sanitary connections
Frequency	K-band (25.0 GHz)	• 2", 3" & 4" Sanitary Clamp according to ISO 2852
Minimum measuring range	50 mm (2 inch) from end of antenna	• DN 50, DN 80 & DN 100 Aseptic/Hygienic threaded to DIN 11864-1 [Form A]
Maximum measuring range	20 m (66 ft)	• DN 50, DN 80 & DN 100 Aseptic/Hygienic flanged to DIN 11864-2 [Form A]
Output		• DN 50, DN 80 & DN 100 Aseptic/Hygienic Clamp according to DIN 11864-3 [Form A]
HART	Version 5.1	• DN 50, DN 80 & DN 100 Hygienic Union according to DIN 11851
• Analog output	4 ... 20 mA	• Type F (50 mm) & Type N (68 mm) Tuchenhagen Varivent
• Accuracy	± 0.02 mA	
• Fail-safe	• Programmable as high low or hold (loss of echo)	
	• NE 43 programmable	
PROFIBUS PA	Profile 3.01	
• Function blocks	2 Analog Input (AI)	
FOUNDATION Fieldbus	H1	
• Functionality	Basic or LAS	
• Version	ITK 5.2.0	
• Function blocks	2 Analog Input (AI)	
Performance (according to reference conditions IEC60770-1)		
Maximum measured error	• > 500 mm from sensor reference point: 3 mm (0.118 inch) • < 500 mm from sensor reference point: 25 mm (1 inch)	
Influence of ambient temperature	< 0.003 %/K	
Rated operating conditions		
Installation conditions		
• Location	Indoor/outdoor	CSA _{US/C} , CE, FM, NE 21, RCM
Ambient conditions (enclosure)		FCC, Industry Canada and Europe ETSI EN 302-372, RCM
• Ambient temperature	-40 ... +80 °C (-40 ... +176 °F)	
• Installation category	I	INMETRO Ex dia mb IIC T4 Ga/Gb, Ex ia ta IIIC T100 °C Da
• Pollution degree	4	INMETRO Ex e ia mb IIC T4 Ga/Gb, Ex ia ta IIIC T100 °C Da
		INMETRO Ex ia IIC T4 Ga, Ex ia ta IIIC T100 °C Da
		CSA/FM Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III T4
		CSA/FM Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III T4
Medium conditions		
Dielectric constant ϵ_r	≥ 1.6 (antenna dependent)	CSA/FM Class I, Div. 2, Groups A, B, C, D T5
Process temperature	-40 ... +170 °C (-40 ... +338 °F) at process connection	NEPSI Ex d ia mb IIC T4 Ga/Gb, Ex e ia mb IIC T4 Ga/Gb, Ex iaD 20 T90 IP67 DIP A20 T _A 90 °C
Process pressure	See Pressure/Temperature curves for more information	NEPSI Ex ia IIC T4 Ga, Ex iaD 20 T90 IP67 DIP A20 T _A 90 °C
Design		
Enclosure		NEPSI Ex ia IIIC T4 Gc
• Material	Aluminum, polyester powder coated	ATEX II 1G Ex ia IIC T4 Ga ATEX II 1D
• Cable inlet	2 x M20x1.5 or 2 x ½" NPT	Ex ia ta IIIC T100 °C Da
Degree of protection	Type 4X/NEMA 4X, Type 6/NEMA 6, IP67, IP68	ATEX II 3G Ex nA IIC T4 Gc
Weight (dependent on process connection)	• Approx. 4.7 kg (10.4 lb) for 2" ISO 2852 (smallest size) • Approx. 7.9 kg (17.4 lb) for DN 100 DIN 11864-2 (largest size)	IECEx/ATEX II 1/2 GD, 1D, 2D
Display (local)	Graphic local user interface including quick start wizard and echo profile display	Ex d mb ia IIC T4 Ga/Gb, Ex ia ta IIC T100 °C Da
Antenna		IECEx/ATEX II 1/2 GD, 1D, 2D, Ex e mb ia IIC T4 Ga/Gb, Ex ia ta IIIC T100 °C Da
• Material		GOST-R Ex d
• Lens surface finish (R_a)	Stainless steel 316L (1.4435 or 1.4404) and TFM 1600 PTFE Lens (lens is the only wetted part)	GOST-R Ex e
	0.8 µm	GOST-R Ex ia
		EHEDG EL Class I
		EHEDG EL Aseptic Class I

Programming

Intrinsically Safe Siemens handheld programmer	Infrared receiver
• Approvals for handheld programmer	IS model: ATEX II 1 GD Ex ia IIC T4 Ga Ex ia D 20 T135 °C Ta = -20 ... +50 °C CSA/FM Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G, T6 T _a = 50 °C IECEx SIR 09.0073
Handheld communicator	HART communicator 375/475
PC	<ul style="list-style-type: none"> • SIMATIC PDM • Emerson AMS • SITRANS DTM <p>(for connection into FDT, such as PACTware or Fieldcare)</p>
Display (local)	Graphic local user interface including quick start wizard and echo profile displays

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SITRANS LR250 Hygienic Encapsulated Antenna

Selection and Ordering data		Article No.	Selection and Ordering data		Article No.
SITRANS LR250 hygienic encapsulated antenna		7ML5433-	SITRANS LR250 hygienic encapsulated antenna		7ML5433-
2-wire, 25 Ghz pulse radar level transmitter for continuous monitoring of liquids and slurries in storage and process vessels including high temperature and pressure, up to a range of 20 m (66 ft) (Antenna dependant). Ideal for Hygienic applications including small vessels and low dielectric media.		0 - A	2-wire, 25 Ghz pulse radar level transmitter for continuous monitoring of liquids and slurries in storage and process vessels including high temperature and pressure, up to a range of 20 m (66 ft) (Antenna dependant). Ideal for Hygienic applications including small vessels and low dielectric media.		0 - A
↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.					
Hygienic/Sanitary Approvals			Communication		
EHEDG EL Class ^{[1)}	1		PROFIBUS PA	1	
EHEDG EL Aseptic Class ^{[1)}	2		4 ... 20 mA HART, start-up at < 3.6 mA	2	
3-A (Tuchenhagen connections only - FC ... FF) ^{[2)}	3		FOUNDATION Fieldbus	3	
EHEDG EL Class I & 3-A (excludes Tuchenhagen connections) ^{[2)}	4				
Process Connection Types (all types have TFM1600 PTFE lens)			Enclosure (with Cable Inlets)		
<u>316L st/st [1.4435 or 1.4404]</u>			Aluminum, Epoxy paint, 2 X 1/2" NPT	0	
2" Sanitary Clamp according to ISO 2852 ^{[5)}	A A		Aluminum, Epoxy paint, 2 X M20 x 1.5	1	
3" Sanitary Clamp according to ISO 2852	A B				
4" Sanitary Clamp according to ISO 2852	A C				
<u>316L st/st (1.4435 or 1.4404) & 304L st/st (1.4301)</u>	B A				
DN 50 Aseptic/Hygienic nozzle/ slotted nut (instrument side) to DIN 11864-1 [Form A] ^{[5)}	B B				
DN 80 Aseptic/Hygienic nozzle/ slotted nut (instrument side) to DIN 11864-1 [Form A]	B C				
DN 100 Aseptic/Hygienic nozzle/ slotted nut (instrument side) to DIN 11864-1 [Form A]	B D				
<u>316L st/st [1.4435 or 1.4404]</u>	C A				
DN 50 Aseptic/Hygienic flanged to DIN 11864-2 [Form A] ^{[5)}	C B				
DN 80 Aseptic/Hygienic flanged to DIN 11864-2 [Form A]	C C				
DN 100 Aseptic/Hygienic flanged to DIN 11864-2 [Form A]	C D				
<u>316L st/st [1.4435 or 1.4404]</u>	D A				
DN 50 Aseptic/Hygienic Clamp according to DIN 11864-3 [Form A] ^{[5)}	D B				
DN 80 Aseptic/Hygienic Clamp according to DIN 11864-3 [Form A]	D C				
DN 100 Aseptic/Hygienic Clamp according to DIN 11864-3 [Form A]	D D				
<u>316L st/st (1.4435 or 1.4404) & 304L st/st (1.4301)</u>	E A				
DN 50 Hygienic nozzle/ slotted nut (instrument side) to DIN 11851 ^{[5)}	E B				
DN 80 Hygienic nozzle/ slotted nut (instrument side) to DIN 11851	E C				
DN 100 Hygienic nozzle/ slotted nut (instrument side) to DIN 11851	F A				
<u>316L st/st [1.4435 or 1.4404]</u>	F B				
Type F (50 mm) Tuchenhagen Varivent (EHEDG only) ^{[5)}	F C				
Type N (68 mm) Tuchenhagen Varivent (EHEDG only) ^{[5)}	F D				
Type F (50 mm) Tuchenhagen Varivent [3-A only & EPDM process seal -40 ... 120 °C (-40 ... 248 °F)] ^{[5)}	F E				
Type N (68 mm) Tuchenhagen Varivent [3-A only & EPDM process seal -40 ... 120 °C (-40 ... 248 °F)] ^{[5)}	F F				
Type F (50 mm) Tuchenhagen Varivent [3-A only & FKM process seal -20 ... 170 °C (-4 ... 338 °F)] ^{[5)}	Y Y				
Type N (68 mm) Tuchenhagen Varivent [3-A only & FKM process seal -20 ... 170 °C (-4 ... 338 °F)] ^{[5)}					
EXCLUDE Process Connection - Electronics Head assembly spare only (select all other options as normal)					

Pressure Rating

Rating per pressure/temperature curves in instruction manual

↗ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol . For details see page 9/5 in the appendix.

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Selection and Ordering data	Order code	Selection and Ordering data	Article No.
Further designs Please add "-Z" to Article No. and specify Order code(s).		Operating Instructions for FOUNDATION Fieldbus device English German French Note: The Operating Instructions should be ordered as a separate line item on the order.	A5E32221411 A5E32376112 A5E35108601
Electrical Connection cable entry: Plug M12 (IP 67 rating) with mating connector ²⁾ ⁷⁾ ⁸⁾ A50 Plug 7/8" (IP 67 rating) with mating Connector ²⁾ ⁸⁾ ⁹⁾ A55	C11 C12 C20 N07 Y15	Compact Operating Instructions for FOUNDATION Fieldbus device English, French, German, Spanish, Italian, Dutch, Danish, Finnish, Greek, Portuguese (Portugal), Swedish English, Bulgarian, Czech, Estonian, Hungarian, Latvian, Lithuanian, Polish, Romanian, Slovakian, Slovenian English, Portuguese (Brazil), Chinese This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Compact Operating Instructions and Operating Instructions library.	A5E33472700 A5E33472738 A5E34046626
Test Certificates Manufacturer's Test Certificate M to DIN 55350, Part 18 and to ISO 9000 Inspection Certificate 3.1 of EN 10204		Accessories Handheld programmer, Intrinsically safe, EEx ia (LUI enabled) HART modem/USB (for use with a PC and SIMATIC PDM) One metallic cable gland M20x1.5, rated -40 ... +80 °C (-40°, +176 °F), HART (two are required) ⁶⁾ One metallic cable gland M20x1.5, rated -40 ... +80 °C (-40 ... +176 °F), PROFIBUS PA and FOUNDATION Fieldbus (two are required) ⁸⁾ SITRANS RD100, loop powered display - see Chapter 7 SITRANS RD200, universal input display with Modbus conversion - see Chapter 7 SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7 SITRANS RD500 web, universal remote monitoring solution for instrumentation - see Chapter 7 For applicable back up point level switch - see point level measurement section	7ML1930-1BK 7MF4997-1DB 7ML1930-1AP 7ML1930-1AQ 7ML5741-... 7ML5740-... 7ML5744-... 7ML5750-...
Functional Safety Functional Safety (SIL 2). Device suitable for use in accordance with IEC 61508 and IEC 61511 ⁶⁾ ¹⁰⁾ Namur Namur NE43 compliant, device preset to failsafe < 3.6 mA ⁶⁾		● We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ●. For details see page 9/5 in the appendix.	
Tagging Stainless steel tag [69 mm x 50 mm (2.71 x 1.97 inch)] Measuring-point number / identification (max. 27 characters) specify in plain text		1) Available with process connection options AA ... FB & YY only 2) Available with Approval options A, B, C, L only 3) Available with Process connection FC ... FF only 4) Available with process connection options AA ... EC & YY only 5) Max. range 10 m (32.8 ft), dk > 3 [20 m (66 ft) and dk > 1.6 if installed in a stillpipe] 6) Applicable with Communication option 2 only 7) Available with Enclosure option 1 only 8) Available with Communication options 1 and 3 only. 9) Available with Enclosure option 0 only 10) Available with Approval options A, B, C, D, E, K, L only	
Operating Instructions for HART/mA device English German French Note: The Operating Instructions should be ordered as a separate line item on the order.	A5E32220602 A5E32376088 A5E35108592		
Compact Operating Instructions for HART/mA device English, French, German, Spanish, Italian, Dutch, Danish, Finnish, Greek, Portuguese (Portugal), Swedish English, Bulgarian, Czech, Estonian, Hungarian, Latvian, Lithuanian, Polish, Romanian, Slovakian, Slovenian English, Portuguese (Brazil), Chinese This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Compact Operating Instructions and Operating Instructions library.	A5E33469191 A5E33469171 A5E34046583		
Operating Instructions for PROFIBUS PA device English German French Note: The Operating Instructions should be ordered as a separate line item on the order.	A5E32221386 A5E32376094 A5E35108597		
Compact Operating Instructions for PROFIBUS PA device English, French, German, Spanish, Italian, Dutch, Danish, Finnish, Greek, Portuguese (Portugal), Swedish English, Bulgarian, Czech, Estonian, Hungarian, Latvian, Lithuanian, Polish, Romanian, Slovakian, Slovenian English, Portuguese (Brazil), Chinese This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Compact Operating Instructions and Operating Instructions library.	A5E33469239 A5E33472685 A5E34046624		

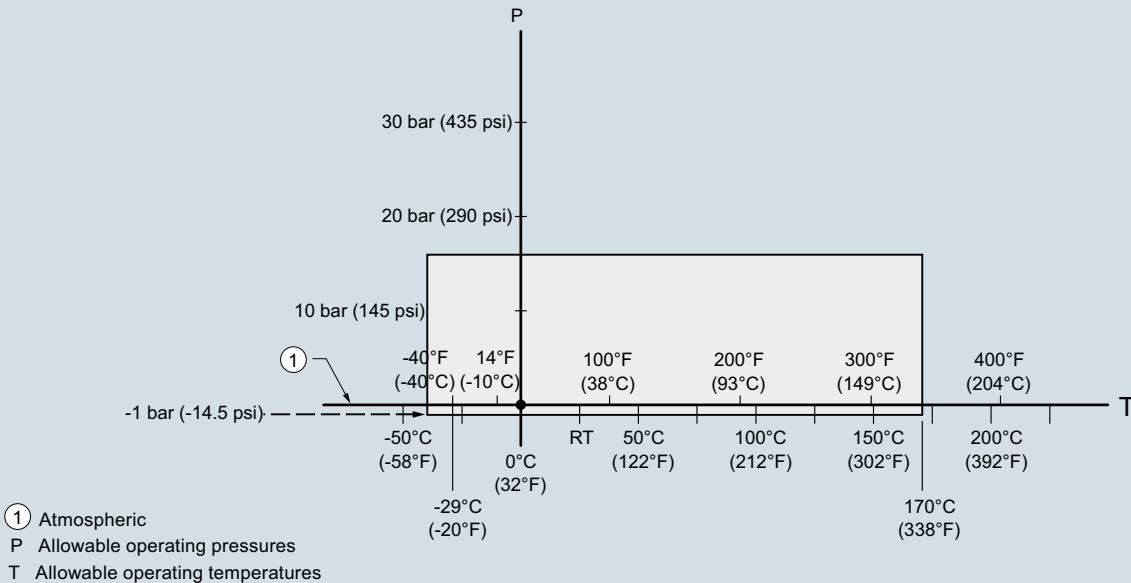
Level Measurement

Continuous level measurement - Radar transmitters

SITRANS LR250 Hygienic Encapsulated Antenna

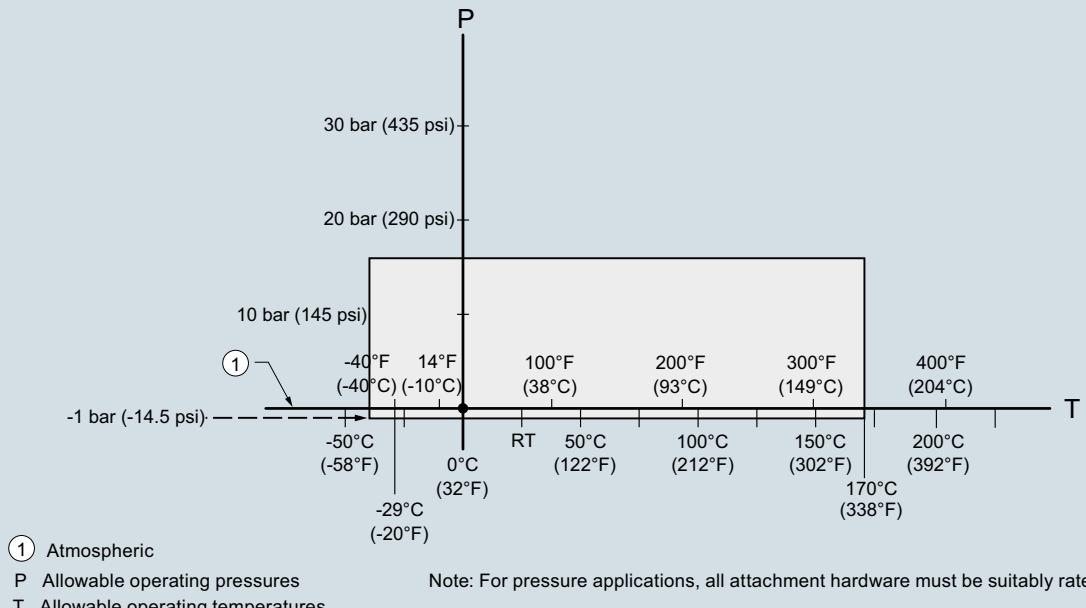
Characteristic curves

DIN 11851 Sanitary/Hygienic nozzle/slotted nut: DN 50, DN 80, and DN 100
DIN 11864-1 Aseptic/Hygienic nozzle/slotted nut: DN 50, DN 80, and DN 100



SITRANS LR250 Hygienic Encapsulated Antenna, pressure/temperature curves

DIN 11864-2 Aseptic/Hygienic flanged: DN 50, DN 80, and DN 100



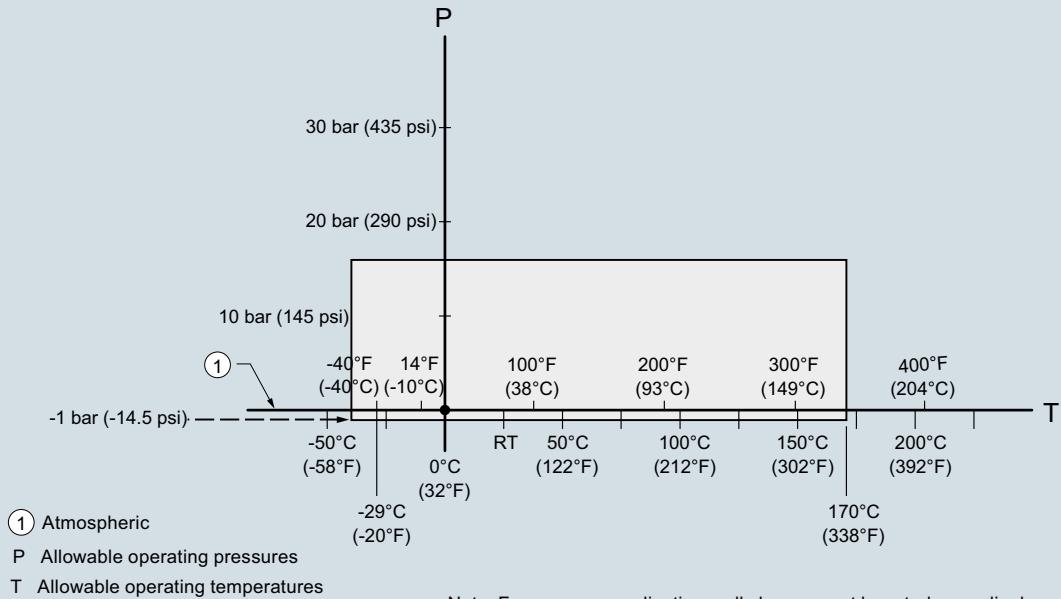
SITRANS LR250, Hygienic Encapsulated Antenna, pressure/temperature curves

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Continuous level measurement - Radar transmitters

SITRANS LR250 Hygienic Encapsulated Antenna

DIN 11864-3 Aseptic/Hygienic clamp: DN 50, DN 80, and DN 100
 ISO 2852 Sanitary/Hygienic clamp: 2", 3", and 4"
 Tuchenhagen Varivent face seal clamp: Type N (68 mm) and Type F (50 mm)



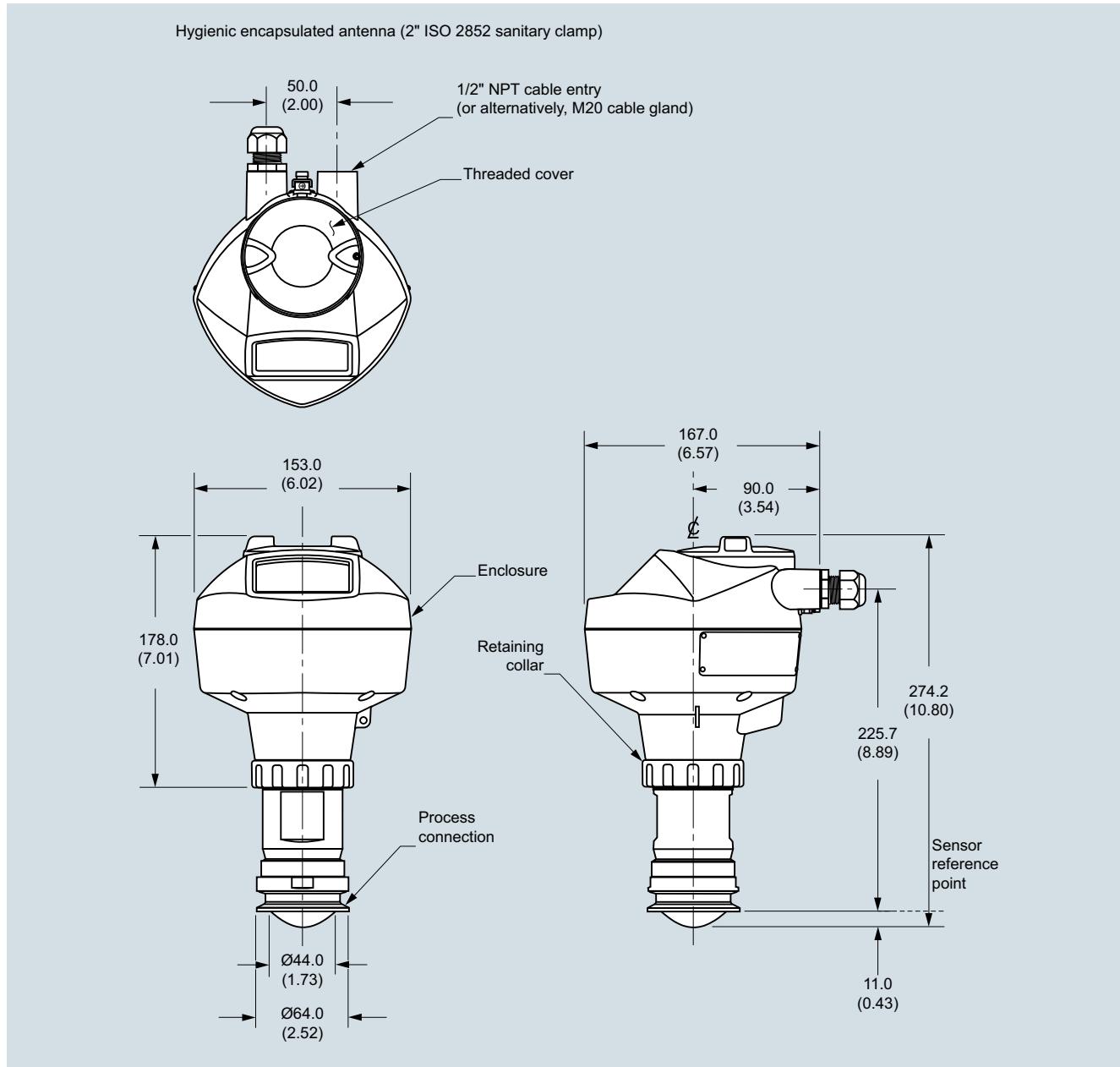
SITRANS LR250 Hygienic Encapsulated Antenna, pressure/temperature curves

Level Measurement

Continuous level measurement - Radar transmitters

SITRANS LR250 Hygienic Encapsulated Antenna

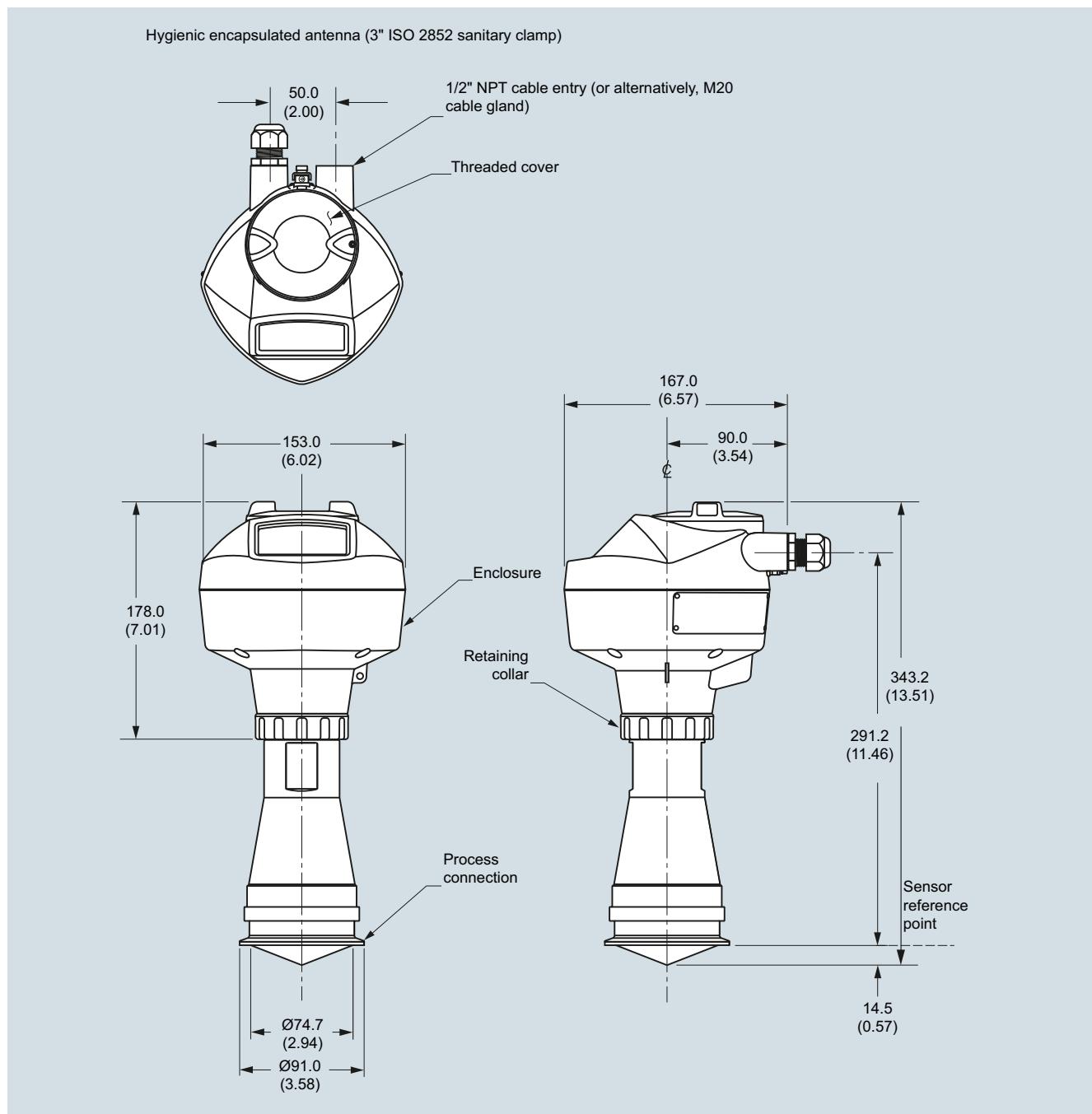
Dimensional drawings



SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

Level Measurement

Continuous level measurement - Radar transmitters

SITRANS LR250 Hygienic Encapsulated Antenna

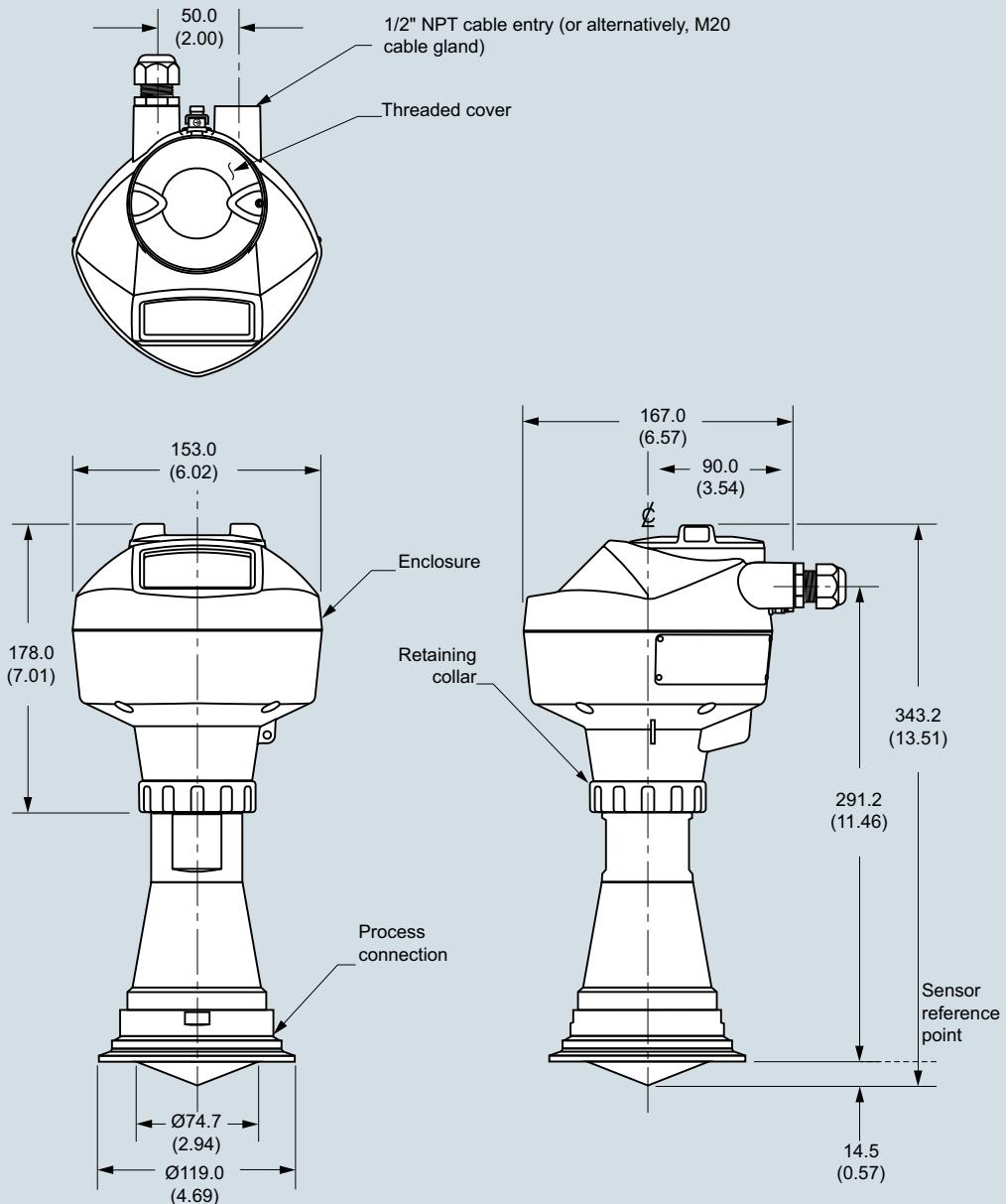
SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

Level Measurement

Continuous level measurement - Radar transmitters

SITRANS LR250 Hygienic Encapsulated Antenna

Hygienic encapsulated antenna (4" ISO 2852 sanitary clamp)



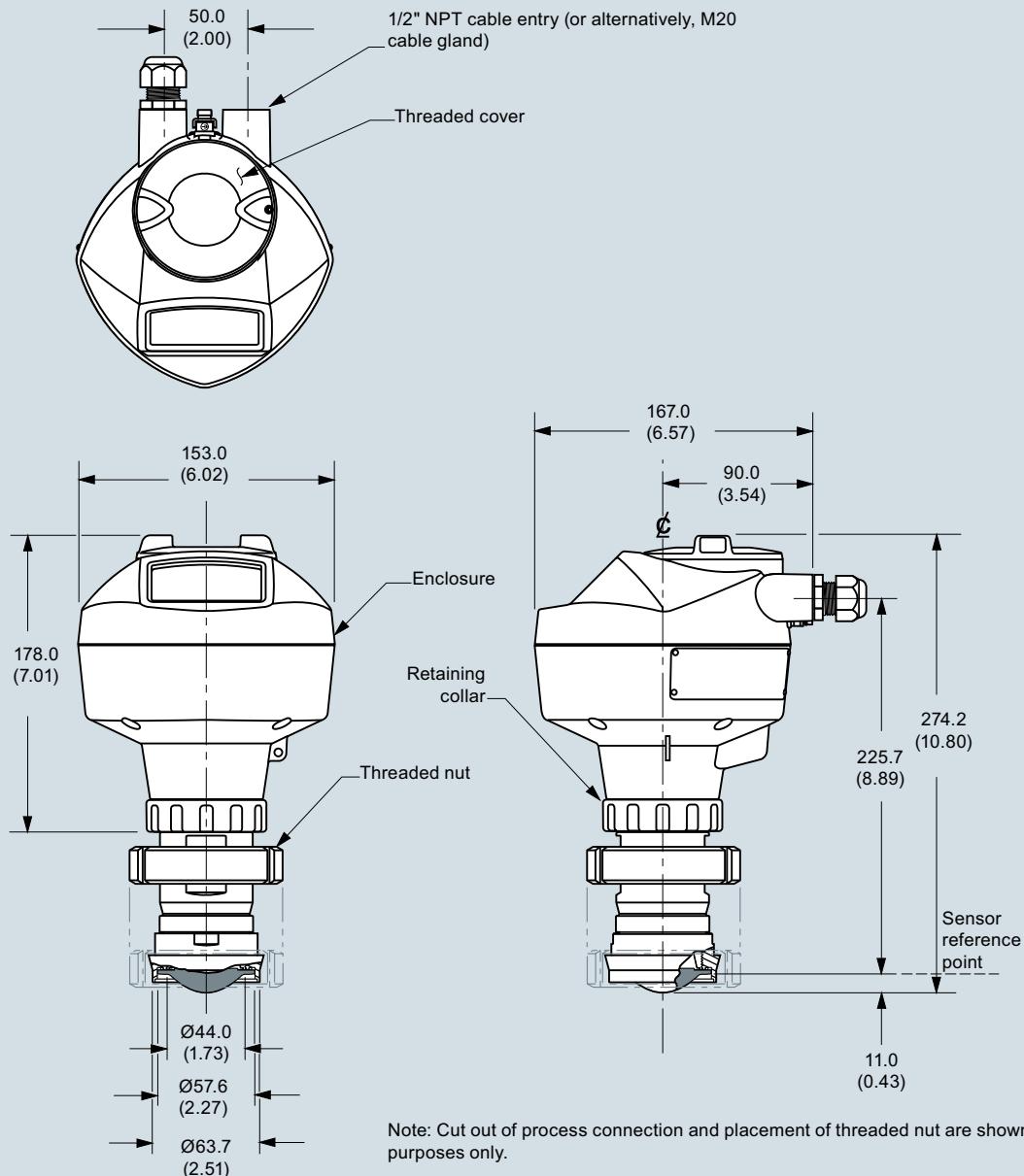
SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

Level Measurement

Continuous level measurement - Radar transmitters

SITRANS LR250 Hygienic Encapsulated Antenna

Hygienic encapsulated antenna (DN 50 nozzle/slotted nut to DIN 11851)



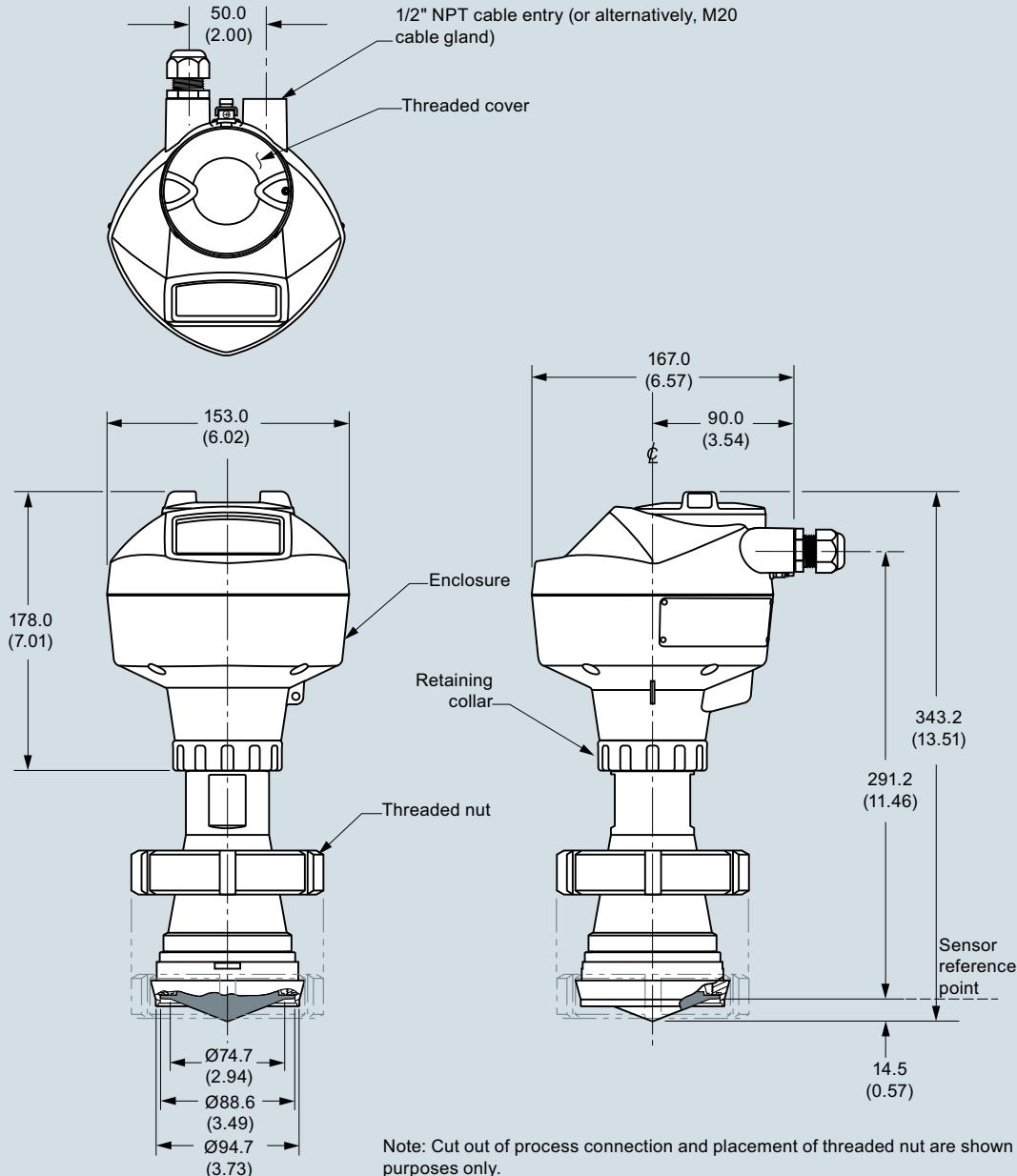
SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

Level Measurement

Continuous level measurement - Radar transmitters

SITRANS LR250 Hygienic Encapsulated Antenna

Hygienic encapsulated antenna (DN 80 nozzle/slotted nut to DIN 11851)



SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

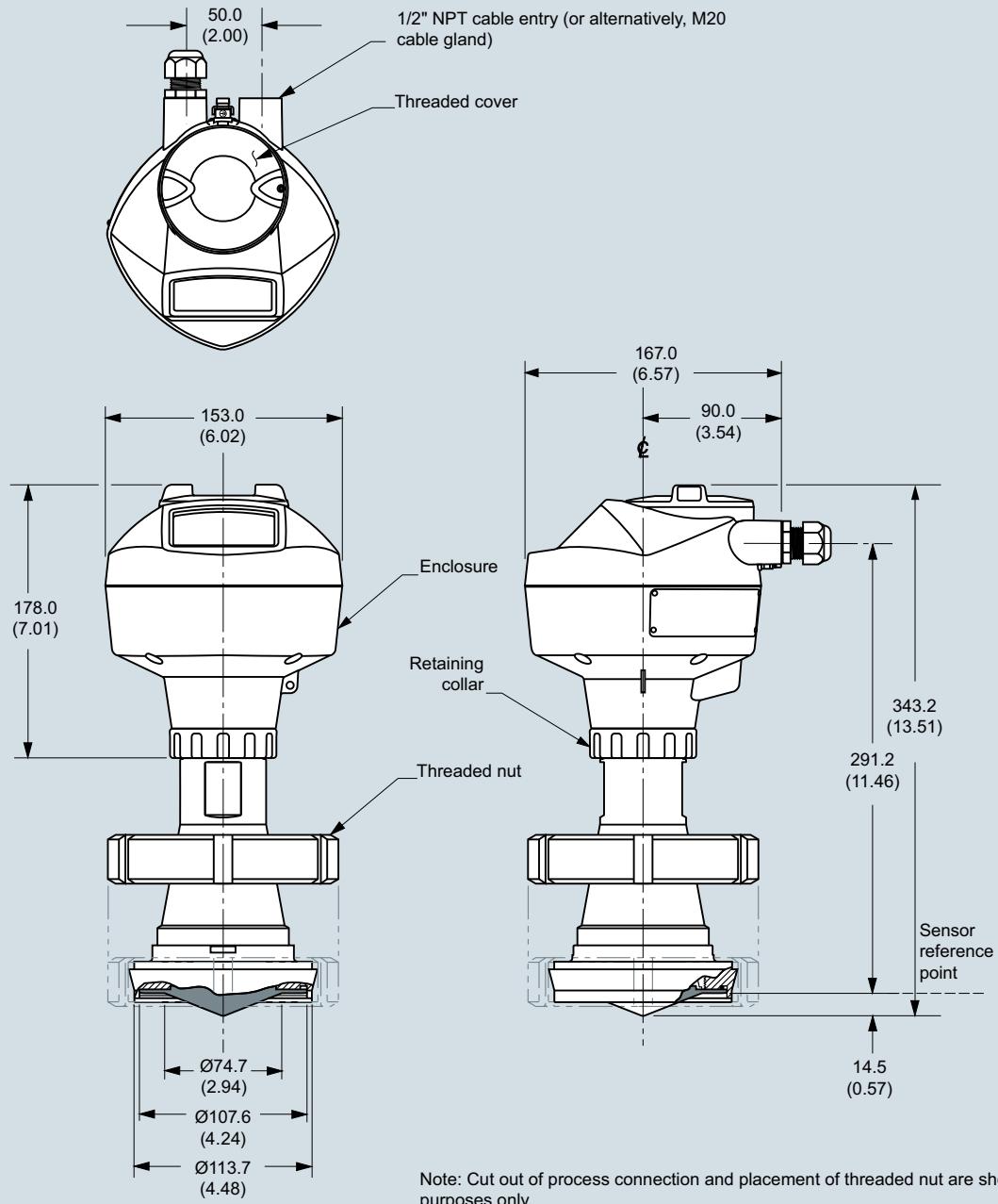
Level Measurement

Continuous level measurement - Radar transmitters

SITRANS LR250 Hygienic Encapsulated Antenna

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Hygienic encapsulated antenna (DN 100 nozzle/slotted nut to DIN 11851)



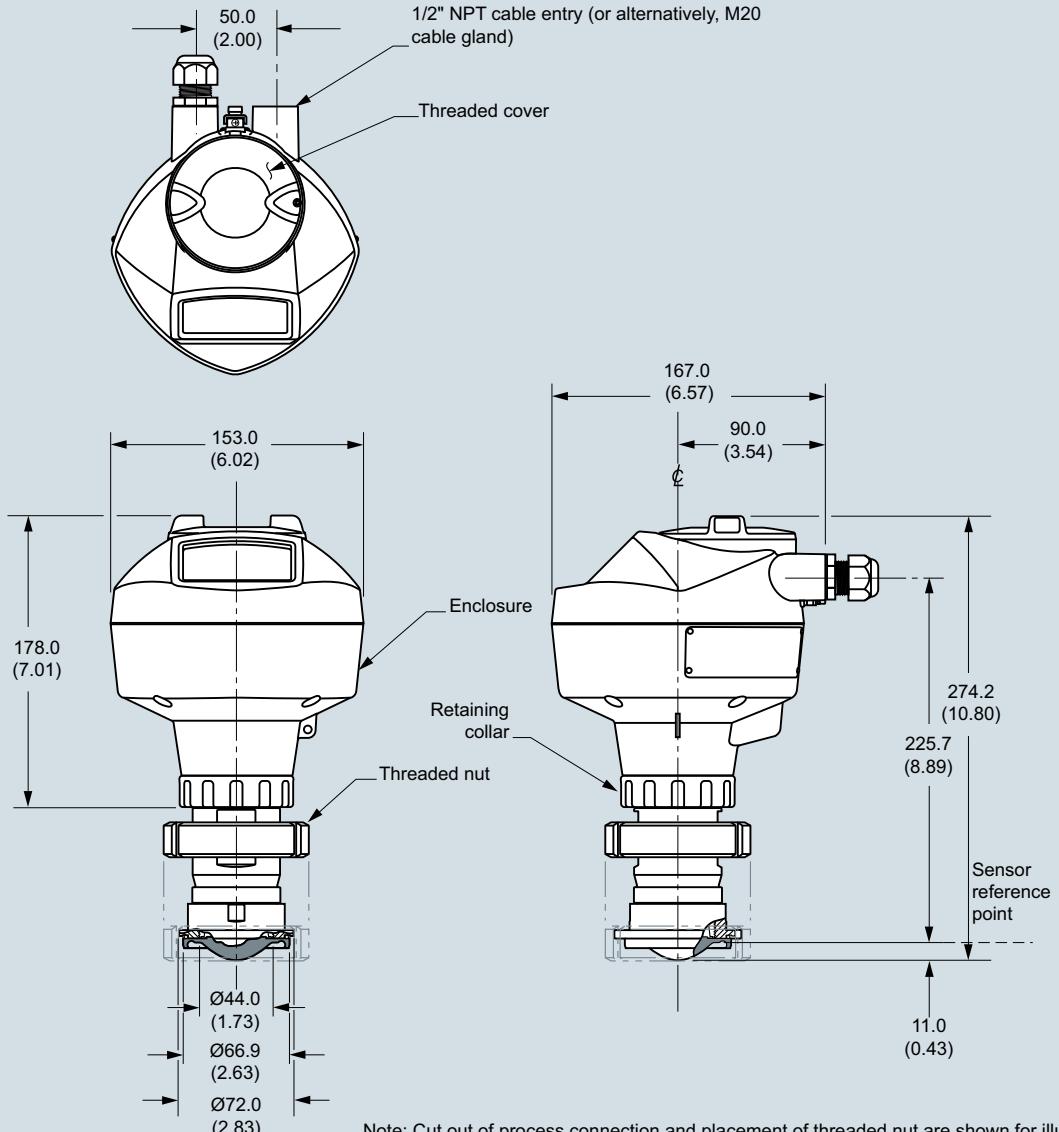
SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

Level Measurement

Continuous level measurement - Radar transmitters

SITRANS LR250 Hygienic Encapsulated Antenna

Hygienic encapsulated antenna (DN 50 aseptic clamp to DIN 11864-1)



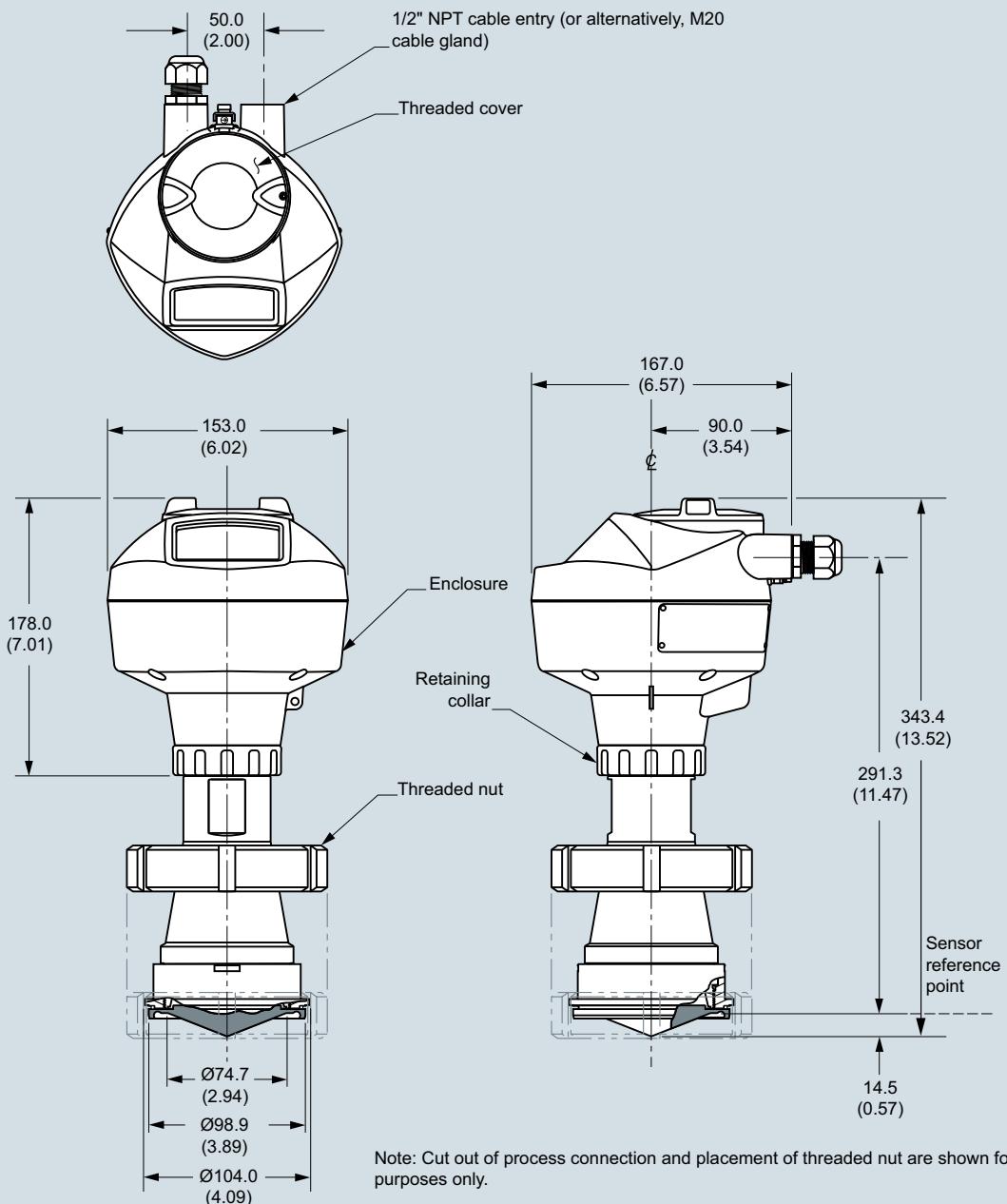
SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

Level Measurement

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SITRANS LR250 Hygienic Encapsulated Antenna

Hygienic encapsulated antenna (DN 80 aseptic clamp to DIN 11864-1)



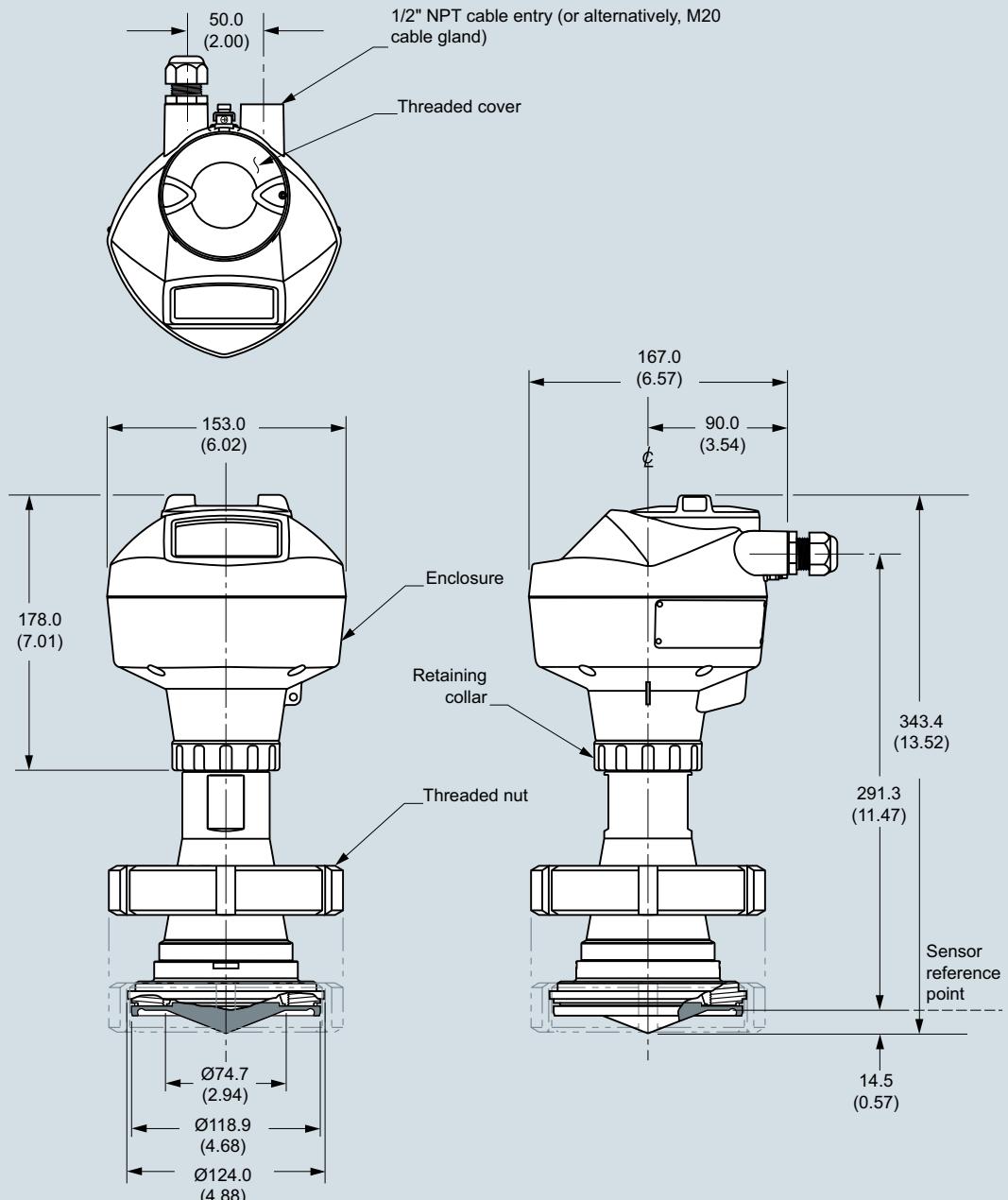
SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

Level Measurement

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SITRANS LR250 Hygienic Encapsulated Antenna

Hygienic encapsulated antenna (DN 100 aseptic clamp to DIN 11864-1)



Note: Cut out of process connection and placement of threaded nut are shown for illustration purposes only.

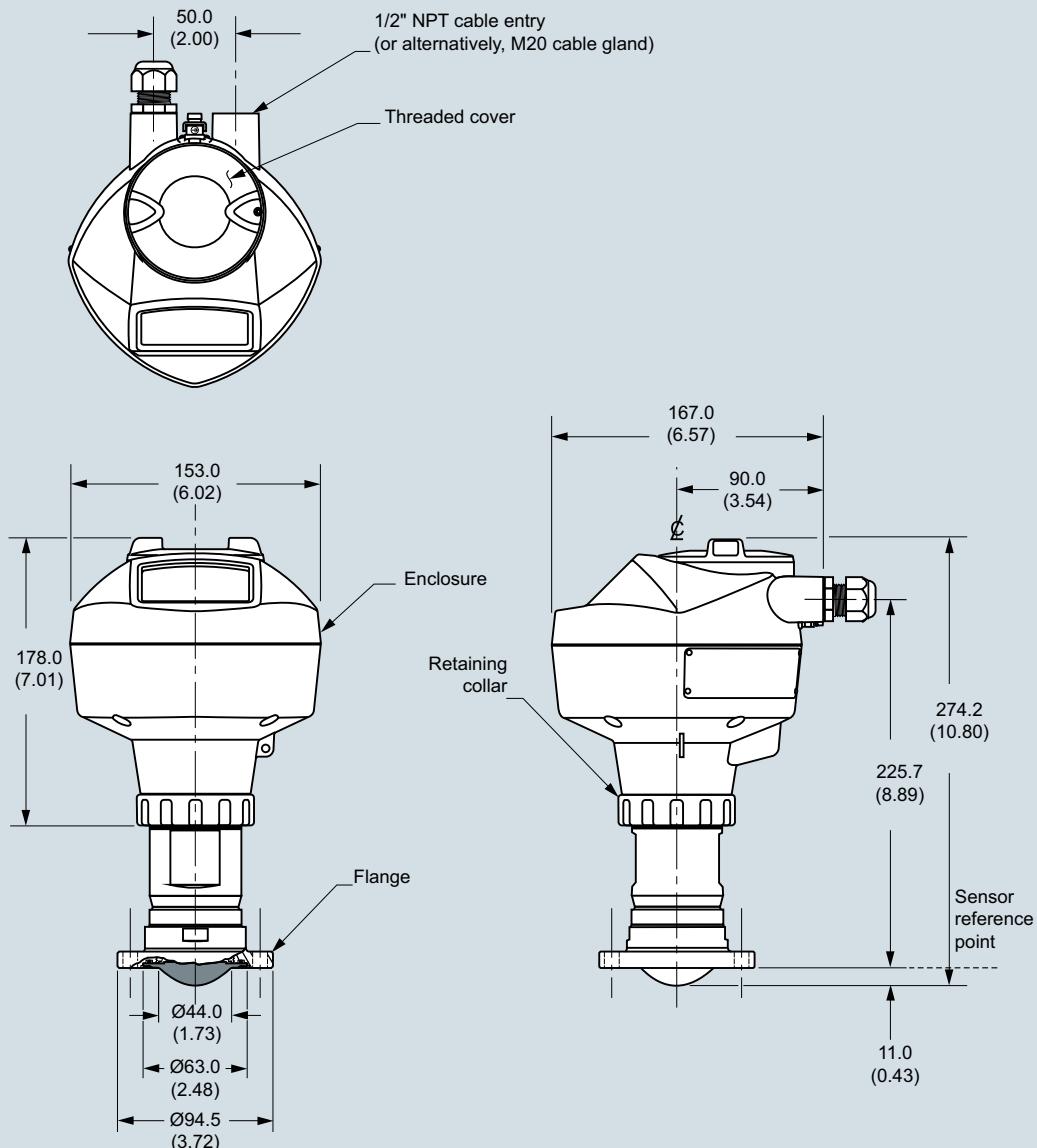
SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

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SITRANS LR250 Hygienic Encapsulated Antenna

Hygienic encapsulated antenna (DN 50 aseptic flange to DIN 11864-2)



Note: Cut out of process connection and flange are shown for illustration purposes only.

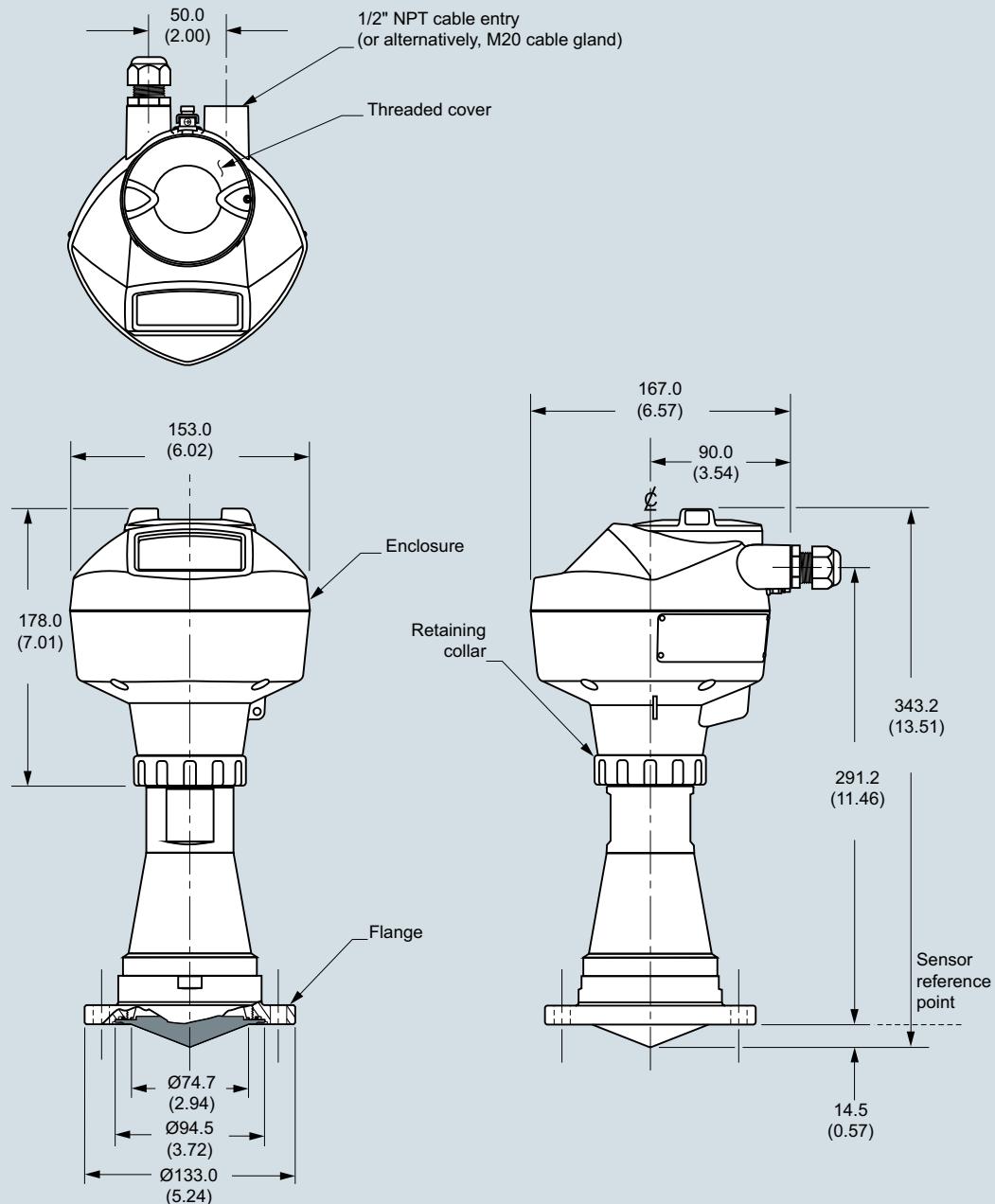
SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

Level Measurement

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SITRANS LR250 Hygienic Encapsulated Antenna

Hygienic encapsulated antenna (DN 80 aseptic flange to DIN 11864-2)



Note: Cut out of process connection and flange are shown for illustration purposes only.

SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

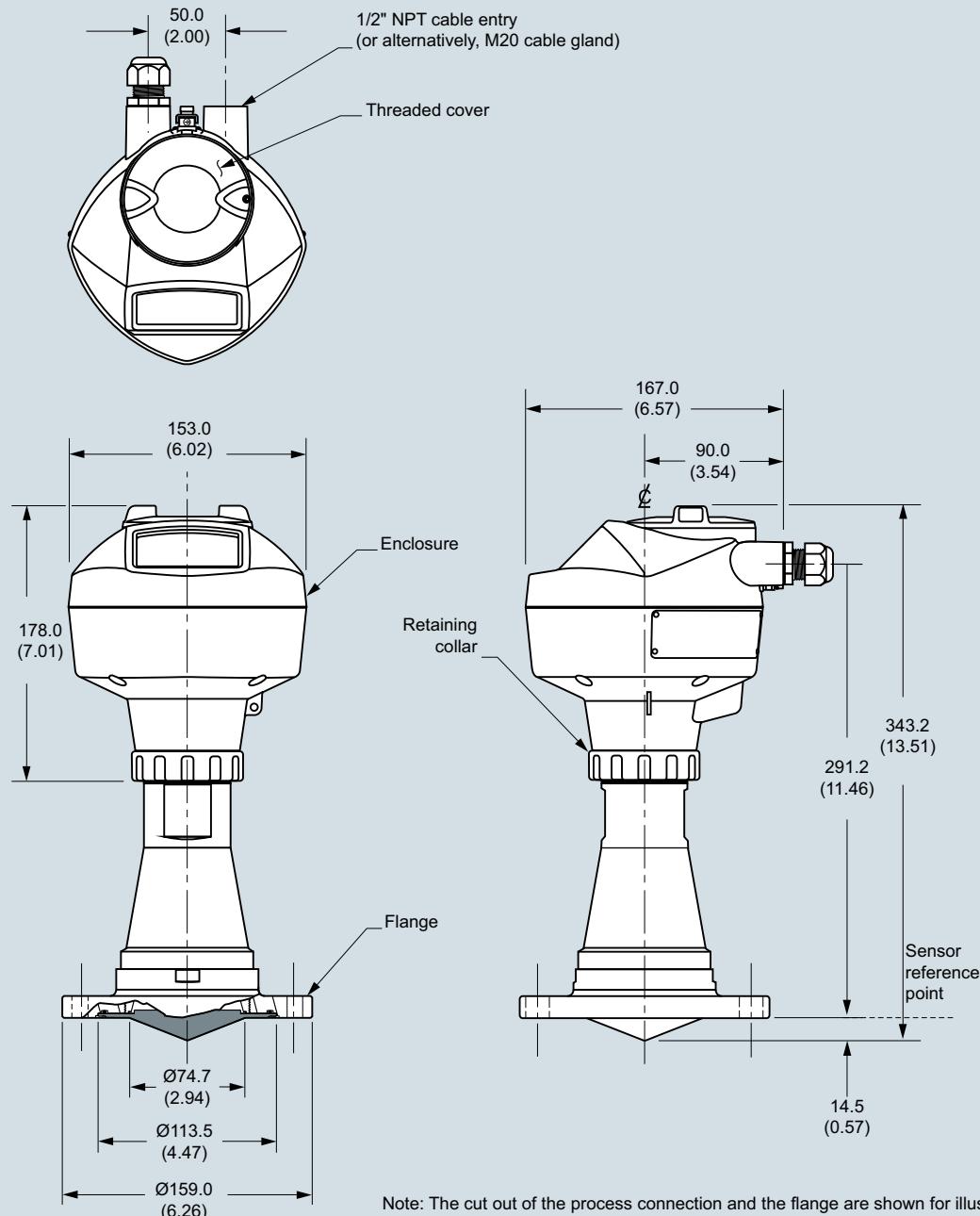
Level Measurement

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Hygienic encapsulated antenna (DN 100 aseptic flange to DIN 11864-2)



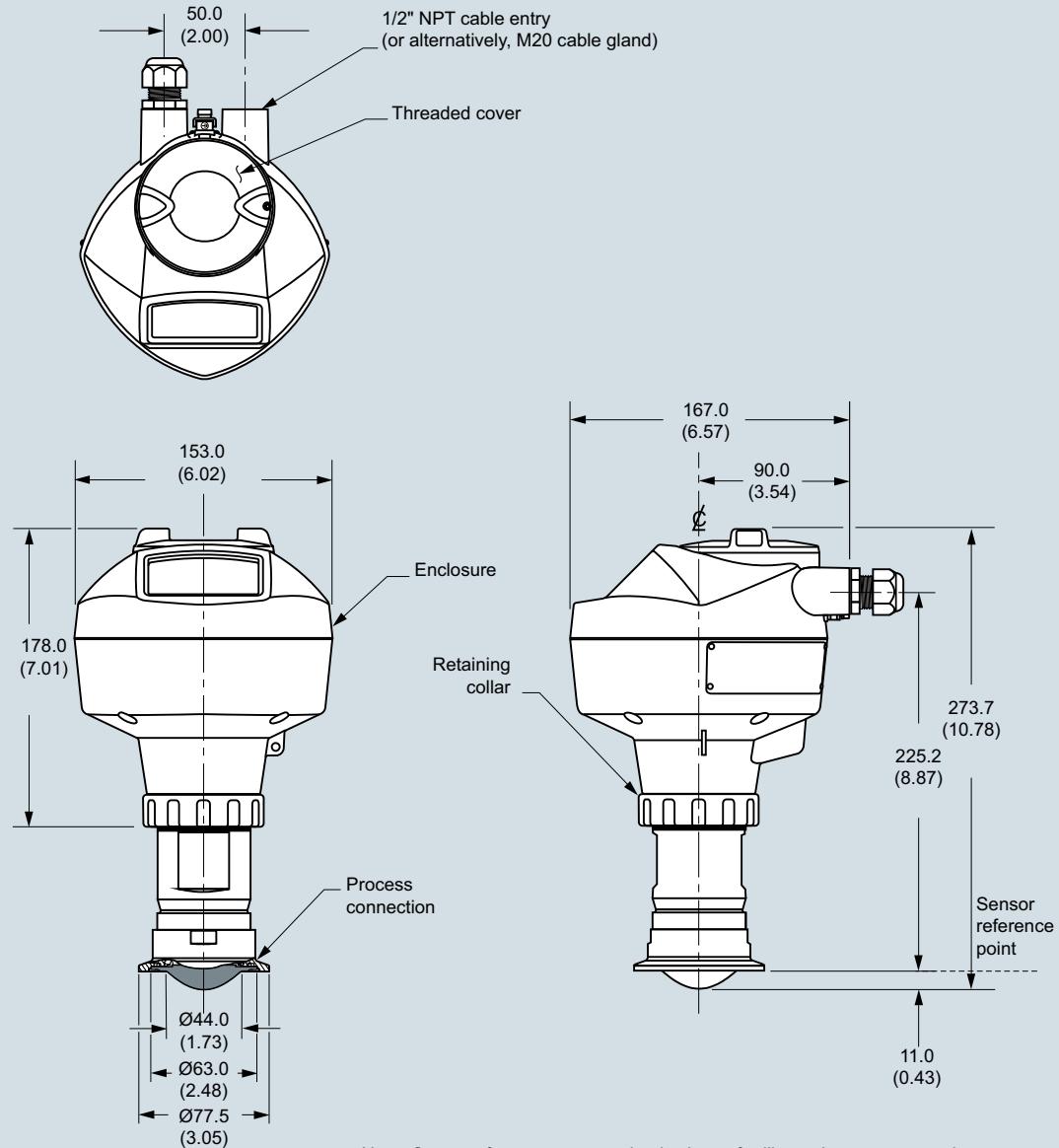
SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

Level Measurement

Continuous level measurement - Radar transmitters

SITRANS LR250 Hygienic Encapsulated Antenna

Hygienic encapsulated antenna (DN 50 aseptic clamp to DIN 11864-3)



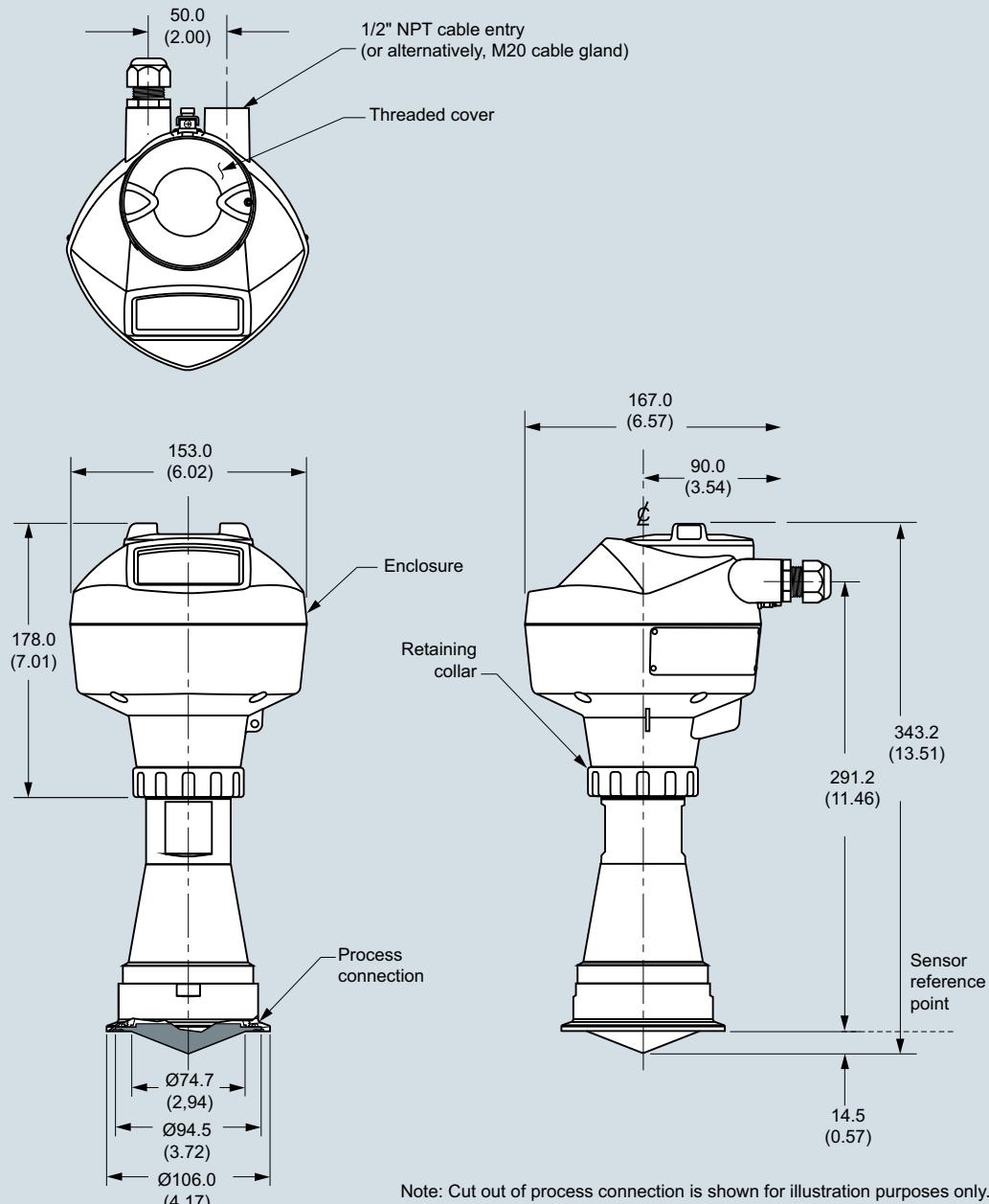
SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

Level Measurement

Continuous level measurement - Radar transmitters

SITRANS LR250 Hygienic Encapsulated Antenna

Hygienic encapsulated antenna (DN 80 aseptic clamp to DIN 11864-3)



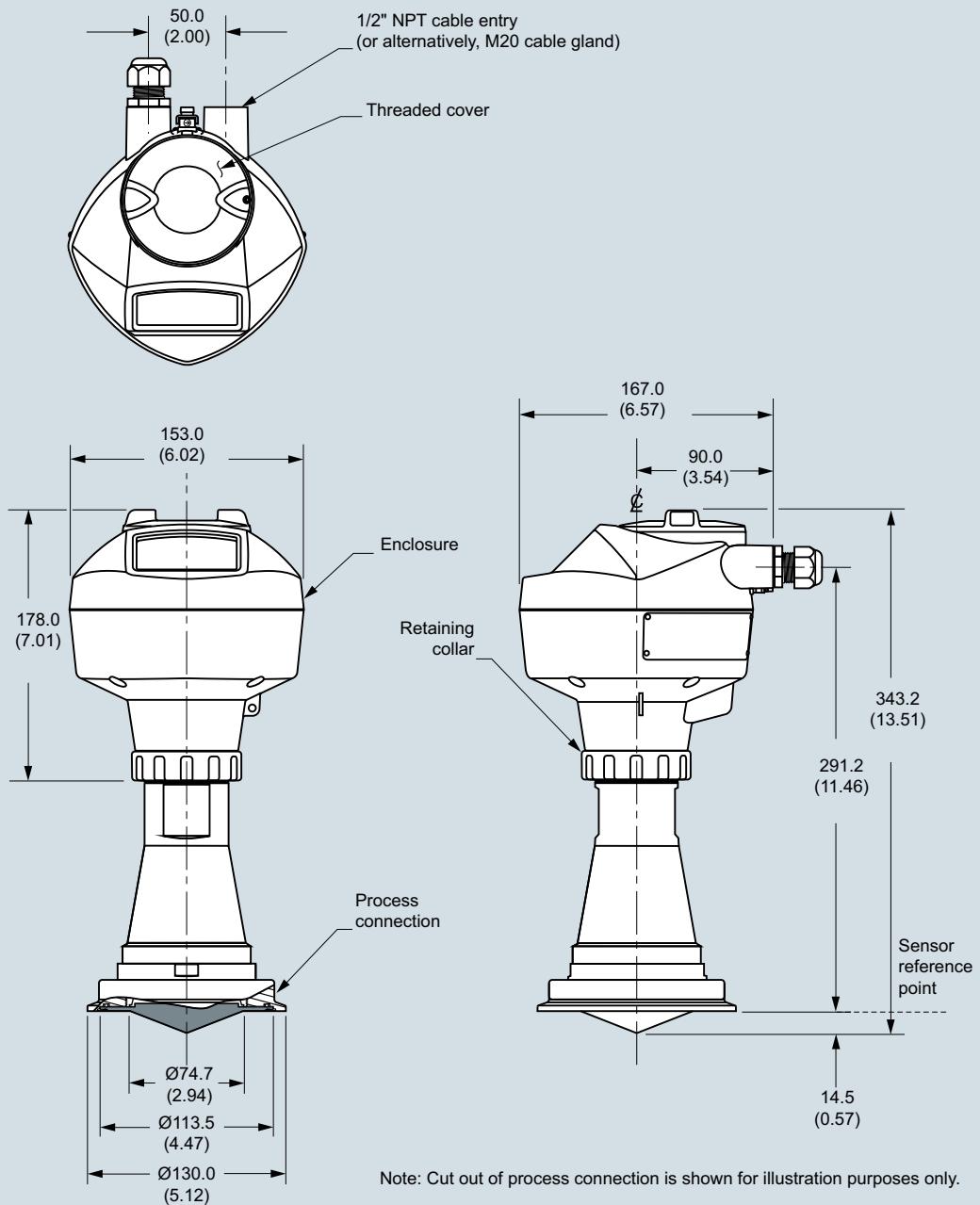
SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

Level Measurement

Continuous level measurement - Radar transmitters

SITRANS LR250 Hygienic Encapsulated Antenna

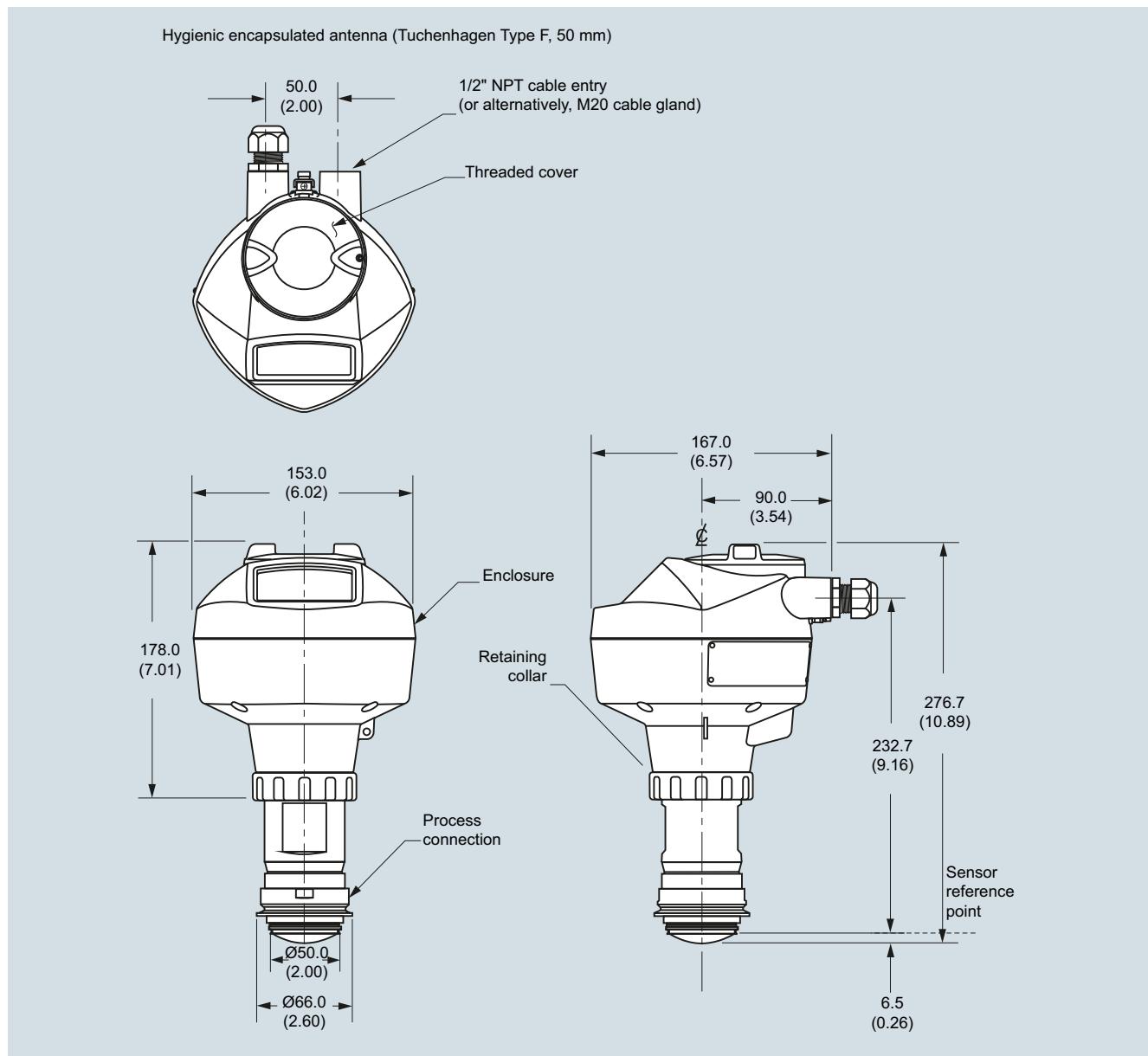
Hygienic encapsulated antenna (DN 100 aseptic clamp to DIN 11864-3)



SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

Level Measurement

Continuous level measurement - Radar transmitters

SITRANS LR250 Hygienic Encapsulated Antenna

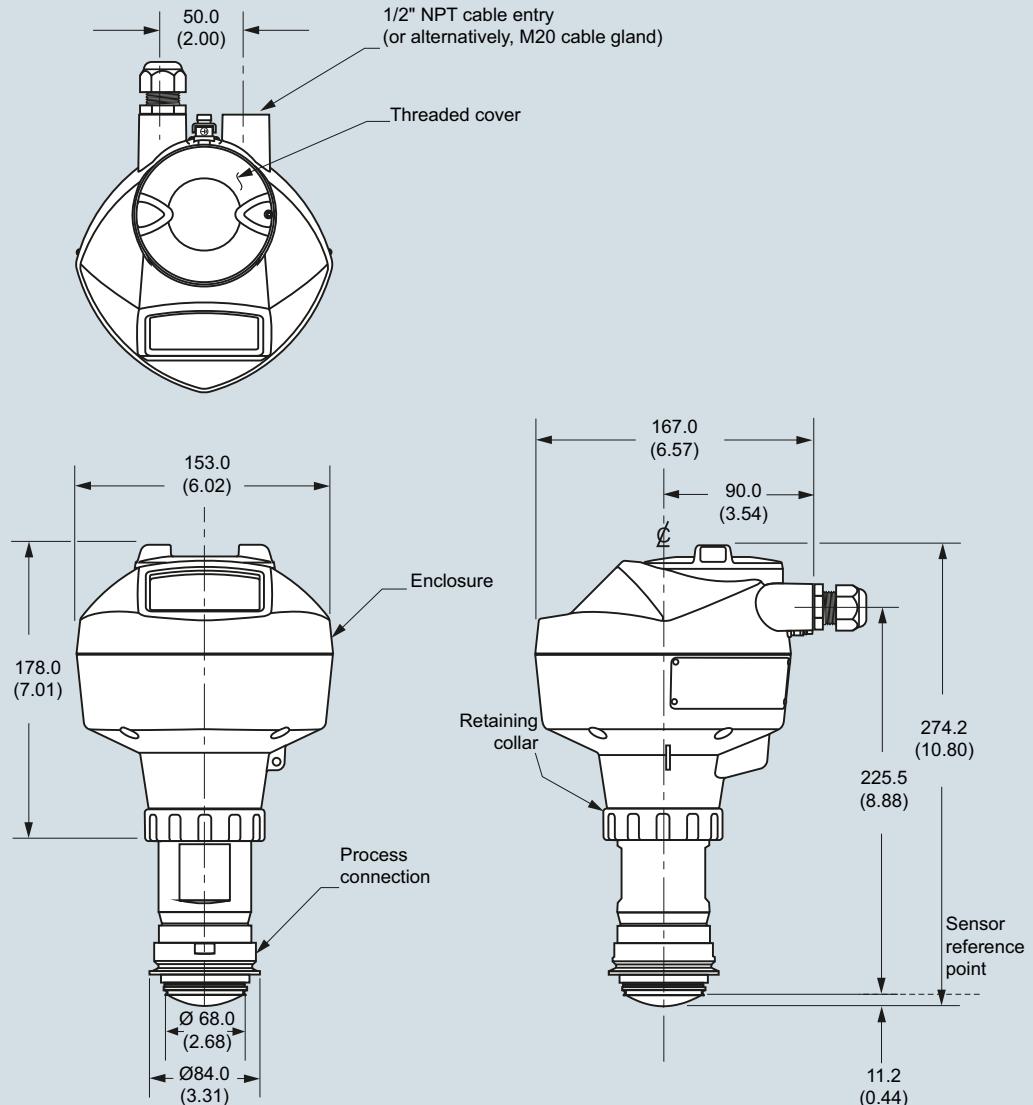
SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

Level Measurement

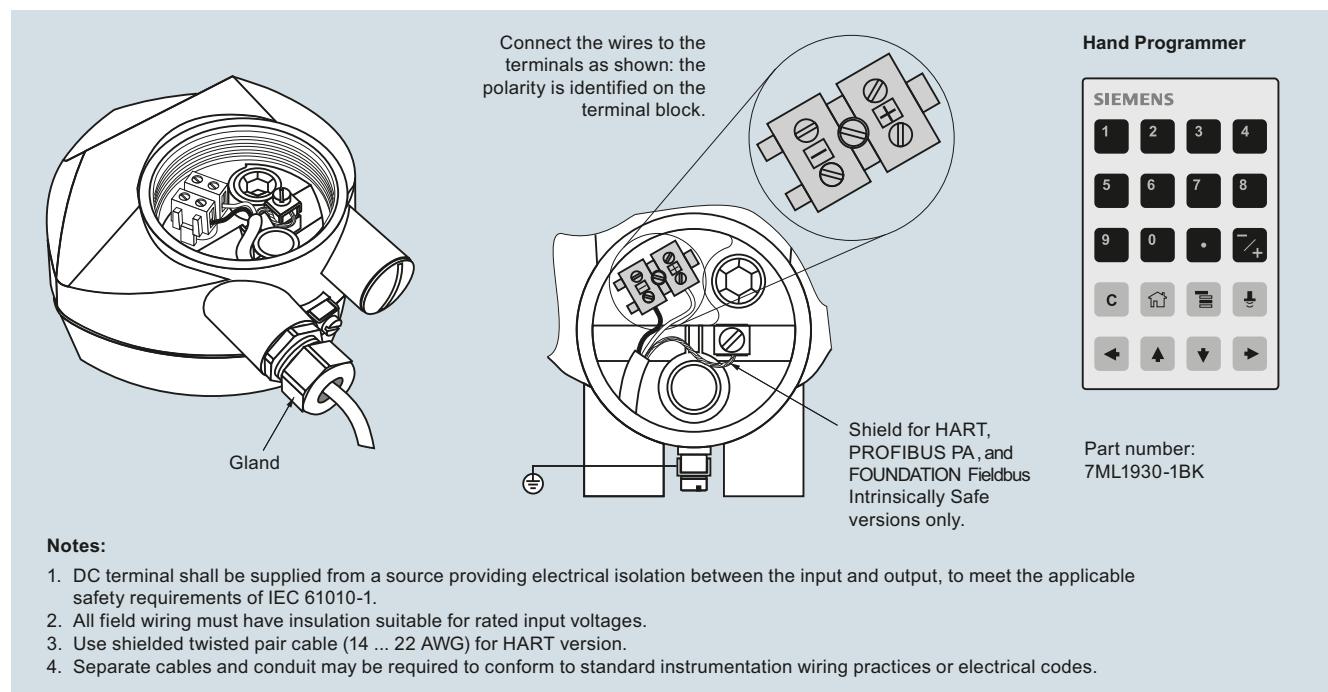
Continuous level measurement - Radar transmitters

SITRANS LR250 Hygienic Encapsulated Antenna

Hygienic encapsulated antenna (Tuchenhagen Type N, 68 mm)



SITRANS LR250 Hygienic Encapsulated Antenna, dimensions in mm (inch)

Schematics

SITRANS LR250 connections

Level Measurement

Continuous level measurement - Radar transmitters

SITRANS LR250 Hygienic Encapsulated Specials

Selection and ordering data

SITRANS LR250 hygienic encapsulated Specials		SITRANS LR250 hygienic encapsulated Specials	
	Article No.		Article No.
For "Electronics Head only" follow the standard configuration and choose YY option on positions 9 and 10 of the full part number.		Kit DN 50 DIN 11864-1 GS Form A tank connection, FKM Seal Class I	A5E32910658
For example: 7ML5433-1YY20-1AA0 will order an electronics head for the following:		Kit, DN 80 DIN 11864-1 GS Form A tank connection, FKM Seal Class I	A5E32910671
EHEDG EL Class 1 approval, 4 ... 20mA HART, M20 cable entries, General purpose Haz Loc approval, pressure rating as per manual.		Kit, DN 100 DIN 11864-1 GS Form A tank connection, FKM Seal Class I	A5E32910681
Spare Lens Kits (Lens and O-ring)		Kit 2" ISO 2852 tank connection, Clamp, Cleanable EPDM Seal Class II	A5E32910686
		Kit 3" ISO 2852 tank connection, Clamp, Cleanable EPDM Seal Class II	A5E32910697
		Kit 4" ISO 2852 tank connection, Clamp, Cleanable EPDM Seal Class II	A5E32910708
		Kit DN 50 DIN 11851 SC tank connection, EPDM Seal Class II ¹¹⁾	A5E32910746
		Kit DN 80 DIN 11851 SC tank connection, EPDM Seal Class II ¹¹⁾	A5E32910771
		Kit DN 100 DIN 11851 SC tank connection, EPDM Seal Class II ¹¹⁾	A5E32910780
		Kit DN 50 DIN 11851 SC tank connection, FKM Seal Class II	A5E32910784
		Kit DN 80 DIN 11851 SC tank connection, FKM Seal Class II	A5E32910789
		Kit DN 100 DIN 11851 SC tank connection, FKM Seal Class II	A5E32910790
		Kit DN 50 DIN 11864-2 Form A tank connection, M8 Hardware (nut/bolt/washer), EPDM Seal Class II	A5E32910791
		Kit DN 80 DIN 11864-2 Form A tank connection, M10 Hardware (nut/bolt/washer), EPDM Seal Class II	A5E32910793
		Kit DN 100 DIN 11864-2 Form A tank connection, M10 Hardware (nut/bolt/washer), EPDM Seal Class II	A5E32910799
		Kit DN 50 DIN 11864-2 Form A tank connection, M8 Hardware (nut/bolt/washer), FKM Seal Class I	A5E32910805
		Kit DN 80 DIN 11864-2 Form A tank connection, M10 Hardware (nut/bolt/washer), FKM Seal Class I	A5E32910809
		Kit DN 100 DIN 11864-2 Form A tank connection, M10 Hardware (nut/bolt/washer), FKM Seal Class I	A5E32910812
		Kit DN 50 DIN 11864-3 Form A tank connection, Clamp, EPDM Seal Class II	A5E32910813
		Kit DN 80 DIN 11864-3 Form A tank connection, Clamp, EPDM Seal Class II	A5E32910814
		Kit DN 100 DIN 11864-3 Form A tank connection, Clamp, EPDM Seal Class II	A5E32910815
		Kit DN 50 DIN 11864-3 Form A tank connection, Clamp, FKM Seal Class I	A5E32910816
		Kit DN 80 DIN 11864-3 Form A tank connection, Clamp, FKM Seal Class I	A5E32910817
		Kit DN 100 DIN 11864-3 Form A tank connection, Clamp, FKM Seal Class I	A5E32910818
Accessories (customer side process connection and FKM and EPDM seal for each size and type)		Kit Type F, Tuchenhagen, Clamp, EPDM Seal Class II (EHEDG only) - no tank connection	A5E33489537
		Kit Type N, Tuchenhagen, Clamp, EPDM Seal Class II (EHEDG only) - no tank connection	A5E33489543
		Kit Type F, Tuchenhagen, Clamp, FKM Seal Class I (EHEDG only) - no tank connection	A5E33489828
		Kit Type N, Tuchenhagen, Clamp, FKM Seal Class I (EHEDG only) - no tank connection	A5E33489830
Kit DN 50 DIN 11864-1 GS Form A tank connection, EPDM Seal Class II	A5E32910638		
Kit, DN 80 DIN 11864-1 GS Form A tank connection, EPDM Seal Class II	A5E32910649		
Kit, DN 100 DIN 11864-1 GS Form A tank connection, EPDM Seal Class II	A5E32910657		

¹¹⁾ Class II for low fat applications when EPMD seal used on DIN 11851.

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