








	For liquids and solids in storage and process applications	For liquids in storage and process applications	For liquids in basic process applications	For agitated and corrosive liquids	For liquids in narrow tanks with internal obstructions	For solids from granulates to rocks	For powders and dusty atmosphere
							
Model Number	L601	LR01	LRS4	LR74	LR75	LR64	LR65
PSS Link	<a href="#">PSS FM 3010 A (en)</a>	<a href="#">PSS FM 3010 A (en)</a>	<a href="#">PSS ZA 745 A (en)</a>	<a href="#">PSS ZA 745 A (en)</a>	<a href="#">PSS ZA 744 A (en)</a>	<a href="#">PSS ZA 742 A (en)</a>	<a href="#">PSS ZA 742 A (en)</a>
Frequency range	L-band/1 GHz	X-band/10 GHz	K-band/24 GHz	X-band/24 GHz	W-band/80 GHz	K-band/24 GHz	W-band/80 GHz
Dielectric constant @	±1.4 (TRF 1.1)	±1.4 (TRF 1.1)	±1.4 (TRF 1.1)	±1.4 (TRF 1.1)	±1.4 (TRF 1.1)	±1.4 (TRF 1.1)	±1.4 (TRF 1.1)
Measuring range	0...40 m/0...130 ft	0...30 m/0...98 ft	0...100 m/0...328 ft	0...100 m/0...328 ft	0...100 m/0...328 ft	0...100 m/0...328 ft	0...100 m/0...328 ft
Accuracy	±3 mm/±0.1"	±5 mm/±0.2"	±2 mm/±0.08"	±2 mm/±0.08"	±2 mm/±0.08"	±2 mm/±0.08"	±2 mm/±0.08"
Repeatability	±1 mm/±0.04"	±1 mm/±0.04"	±1 mm/±0.04"	±1 mm/±0.04"	±1 mm/±0.04"	±1 mm/±0.04"	±1 mm/±0.04"
Converter	C (compact), F (field remote)	C (compact), F (field remote)	C (compact), F (field remote)**	C (compact), F (field remote)**	C (compact)	C (compact)	C (compact)
Housing material	Aluminum, stainless steel	Aluminum, stainless steel	Aluminum, stainless steel	Aluminum, stainless steel	Aluminum, stainless steel	Aluminum, stainless steel	Aluminum, stainless steel
Ingress protection	IP 66, 67, NEMA 4X	IP 66, 67, NEMA 4X	IP66, 68, 0.1 barg/1.45 psig	IP66, 68, 0.1 barg/1.45 psig	IP66, 68, 0.1 barg/1.45 psig	IP66, 68, 0.1 barg/1.45 psig	IP66, 68, 0.1 barg/1.45 psig
Antenna installation*	n/a	TLR*	LPR and TLR*	LPR and TLR*	LPR and TLR*	LPR*	LPR*
Antenna type (material), size (beam angle - if applicable)	Double rod Single rod (segmented) Coaxial (segmented) Double cable Single cable Ø2 mm / 0.08" Single cable Ø4 mm / 0.15"	Metallic Horn: (316L) DN65/2.5" (for bypass chamber) Metallic Horn: (316L) DN80...200/3...8" (32...12") Wave Horn: (PP or PTFE) Ø43 mm/1.69" (20") Metallic Wave Guide: (316L) Ø30 mm/1.18"	Metallic Horn: (316L) DN40...200/1.5...8" (17...5") Drop (PP): DN80/3" (9"), DN100/4" (7"), DN150/6" (5")	Metallic Horn: (316L) DN40...200/1.5...8" (17...5") Drop (PEEK): DN80/3" (9") Drop (PTFE): DN80/3" (8"), DN100/4" (7"), DN150/6" (4")	Lens (PEEK): DN20; 1/2" (15"), DN25; 1" (10"), DN40; 1.5" (6"), DN70; 2.75" (4")	Metallic Horn: (316L) DN80...200; 3...8" (9...5") Drop (PP): DN80; 3" (9"), DN100 4" (7"), DN150; 6" (5") Drop (PTFE): DN80; 3" (8"), DN100; 4" (7"), DN150; 6" (4")	Lens (PEEK): DN40; 1.5" (6"), DN70; 2.75" (4")
Process connection	Thread: G1/2, G3/8, G1, G1 1/2, 1/2 NPT, 1/2 NPT, 1 NPT, 1 1/2 NPT Flange: DN25...200, 1...8", 40...200A	Thread: G1 1/2, G2, 1 1/2 NPT, 2 NPT Flange: DN50...200, 2...8", 50...200A	Thread: G1, G1 1/2, 1 NPT, 1 1/2 NPT Flange: DN40...200, 1 1/2...8", 40...200A	Thread: G1 1/2, 1 1/2 NPT Flange: DN40...200, 1 1/2...8", 40...200A	Thread: G1 1/2, G1, G1 1/2, G3, 1/2 NPT, 1 NPT, 1 1/2 NPT, 3 NPT Flange: DN50...200, 2...8", 50...200A	Thread: G1, G1 1/2, 1 NPT, 1 1/2 NPT; Flange: DN80...200, 3...8", 80...200A	Thread: G1 1/2, G3, 1 1/2 NPT, 3 NPT Flange: DN50...200, 2...8", 50...200A
Gasket	FKM/FPM, Kalrez® 6375, EPDM, PFA	FKM/FPM, Kalrez® 6375, EPDM, PFA	FKM/FPM, EPDM, Kalrez® 6375	FKM/FPM, EPDM, Kalrez® 6375	FKM/FPM, EPDM, Kalrez® 6375	FKM/FPM, EPDM, Kalrez® 6375	FKM/FPM, EPDM, Kalrez® 6375
Ambient temperature	-40...+80°C/-40...+176°F	-40...+80°C/-40...+176°F	-40...+80°C/-40...+176°F	-40...+80°C/-40...+176°F	-40...+80°C/-40...+176°F	-40...+80°C/-40...+176°F	-40...+80°C/-40...+176°F
Process temperature	-50...+200°C/-58...+392°F (higher on request)	-50...+200°C/-58...+392°F (higher on request)	-50...+130°C/-58...+266°F	-50...+200°C/-58...+392°F (higher on request)	-50...+200°C/-58...+392°F	-50...+200°C/-58...+392°F	-50...+200°C/-58...+392°F
Process pressure	-1...40 barg/-14.5...580 psig (higher on request)	-1...40 barg/-14.5...580 psig (higher on request)	+1...16 barg/-14.5...232 psig	-1...100 barg/-14.5...1450 psig (higher on request)	-1...40 barg/-14.5...580 psig	+1...16 barg/-14.5...232 psig	-1...40 barg/-14.5...580 psig
Power supply	11.5...30 V DC (Exi), 13.5...36 V DC (Exd), 2-wire	11.5...30 V DC (Exi), 13.5...36 V DC (Exd), 2-wire	12...30 V DC (Exi), 16...36 V DC (Exd), 2-wire	12...30 V DC (Exi), 16...36 V DC (Exd), 2-wire	12...30 V DC (Exi), 16...36 V DC (Exd), 2-wire	12...30 V DC (Exi), 16...36 V DC (Exd), 2-wire	12...30 V DC (Exi), 16...36 V DC (Exd), 2-wire
Output	2-wire: 4...20 mA (HART® 6), FOUNDATION™ fieldbus, PROFIBUS PA	2-wire: 4...20 mA (HART® 6), FOUNDATION™ fieldbus, PROFIBUS PA	2-wire: 4...20 mA (HART® 7), FOUNDATION™ fieldbus**, PROFIBUS PA**	2-wire: 4...20 mA (HART® 7), FOUNDATION™ fieldbus**, PROFIBUS PA**	2-wire: 4...20 mA (HART® 7), FOUNDATION™ fieldbus**, PROFIBUS PA**	2-wire: 4...20 mA (HART® 7), FOUNDATION™ fieldbus**, PROFIBUS PA**	2-wire: 4...20 mA (HART® 7), FOUNDATION™ fieldbus**, PROFIBUS PA**
Accessories	Weather protection	Antenna extensions of various shapes and lengths, heating/cooling systems for metallic horn antennas, weather protection	Antenna extensions in metal or PP, purging system, flange plate protection made of PP, weather protection, mounting brackets	Antenna extensions in metal or PTFE, purging / heating /cooling systems for metallic horn antennas, flange plate protection made of PTFE or PEEK, weather protection, mounting brackets	Antenna extensions in metal, purging system, flange plate protection made of PEEK, weather protection, mounting brackets	Antenna extensions, slanted flange, purging system, weather protection, mounting brackets	Antenna extensions, slanted flange, purging system, weather protection, mounting brackets
Options	METAGLAS® dual safety sealing Probe made of Hastelloy® C-22 or probe with 3 PVC, PVDF or PP protective sheath	METAGLAS® dual safety sealing	M12 4-pin connector eliminates mis-wiring and speeds install	METAGLAS® dual safety sealing M12 4-pin connector eliminates mis-wiring and speeds install	M12 4-pin connector eliminates mis-wiring and speeds install	M12 4-pin connector eliminates mis-wiring and speeds install	M12 4-pin connector eliminates mis-wiring and speeds install
Approvals	ATEX, IECEx, cFMS, NEPSI, INMETRO, NACE, CRN	ATEX, IECEx, cFMS, NEPSI, INMETRO, NACE, CRN	ATEX, IECEx, cQPSus, NEPSI, NACE, CRN - ASME B31.3**	ATEX, IECEx, cQPSus, NEPSI, NACE, CRN - ASME B31.3**	ATEX, IECEx, cQPSus, NEPSI, NACE, CRN - ASME B31.3**	ATEX, IECEx, cQPSus, NEPSI, NACE, CRN - ASME B31.3**	ATEX, IECEx, cQPSus, NEPSI, NACE, CRN - ASME B31.3**
SIL approval	SIL2	SIL2	Developed acc. to SIL2/3, IEC 61508 – 2010. The SIL approval is in the process of validation by TÜV Süd, Germany.**	Developed acc. to SIL2/3, IEC 61508 – 2010. The SIL approval is in the process of validation by TÜV Süd, Germany.**	Developed acc. to SIL2/3, IEC 61508 – 2010. The SIL approval is in the process of validation by TÜV Süd, Germany.**	Developed acc. to SIL2/3, IEC 61508 – 2010. The SIL approval is in the process of validation by TÜV Süd, Germany.**	Developed acc. to SIL2/3, IEC 61508 – 2010. The SIL approval is in the process of validation by TÜV Süd, Germany.**

\* LPR (Level Probing Radar): The antenna can be installed in a closed tank as well as outside. The antenna needs to point

\*\* Approval Pending

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