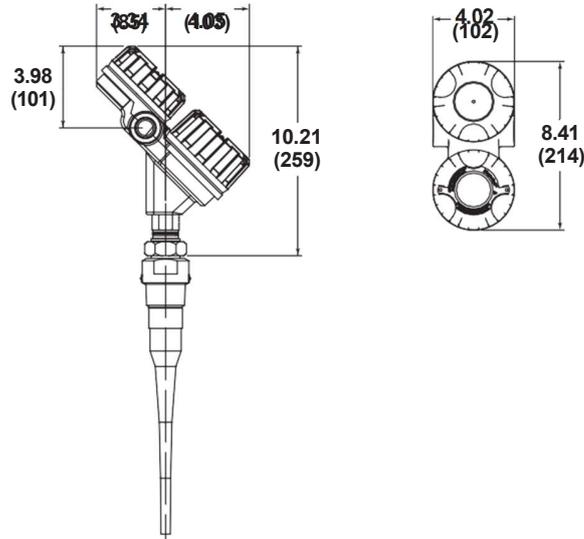
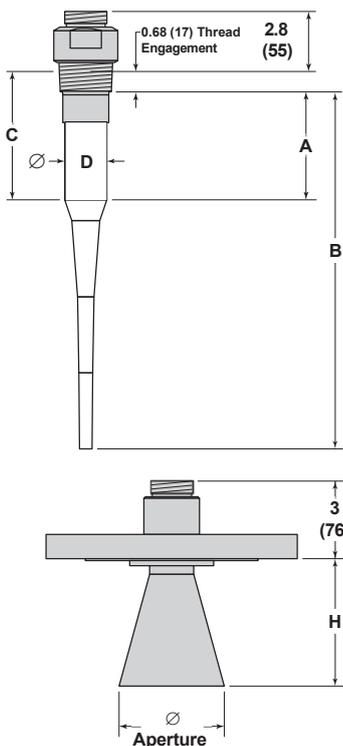
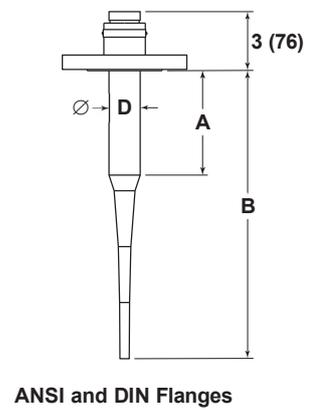
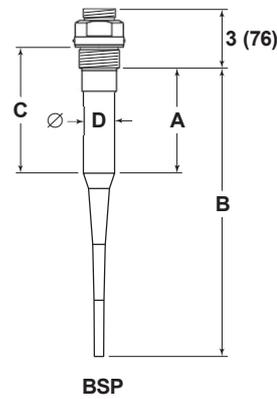
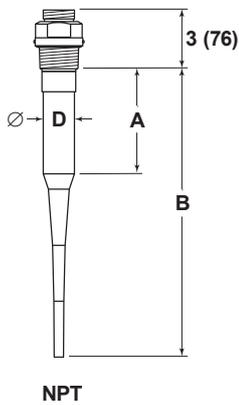


Transmitter



Dielectric Rod



DIELECTRIC RODS

Model #	Antenna Extension (maximum "L" dimension)	All	All	BSP
8th Digit		Dim A	Dim B	Dim C
0	1" (25 mm)	2.3 (58)	11.1 (282)	3.0 (76)
1	4" (100 mm)	5.1 (130)	14.0 (356)	5.9 (150)
2	8" (200 mm)	9.1 (231)	18.0 (457)	9.9 (251)
3	12" (300 mm)	13.1 (333)	22.0 (559)	13.9 (353)

Antenna Extension O.D. Dimension D	
TFE Rod	∅ 1.625 (41)
PP Rod	∅ 1.50 (38)
All-Plastic Rod	∅ 1.625 (41)

HORNS

Model #	Antenna Extension (maximum "L" dimension)	3" Horn	4" Horn	6" Horn	
8th Digit		Dim H	Dim H	Dim H	
0	1" (25 mm)	2.7 (51)			
1	4" (100 mm)	N/A	4.6 (117)	↓	
2	8" (200 mm)		8.4 (213)		8.3 (211)
3	12" (300 mm)		12.4 (315)		12.4 (315)
Aperture		2.95" (75 mm)	3.75" (95 mm)	5.75" (146 mm)	

PULSAR Radar Transmitter

BASIC MODEL NUMBER AND OPERATING FREQUENCY

R95	Through-Air Radar Level Transmitter- 6.3 GHz Pulse Radar (North America)
R05	Through-Air Radar Level Transmitter- 5.8 GHz Pulse Radar (Europe)



POWER

5	24 VDC, Two-wire
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SIGNAL OUTPUT

1	4-20 mA with HART
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ACCESSORIES

A	Digital Display and Keypad
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MOUNTING/CLASSIFICATION

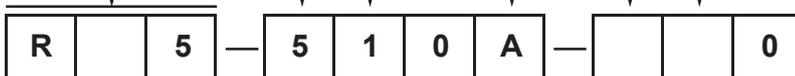
1	Integral, General Purpose & Intrinsically Safe (FM & CSA), Non-incendive (CL1, Div II) ①
3	Integral, Explosion-Proof (FM & CSA Class I Div. 1, Groups B, C & D)
A	Integral, General Purpose & Intrinsically Safe (ATEX II 1G EEx ia IIC T4 IEC Ex ia IIC T4)
C	Integral, Explosion-Proof (ATEX II 1/2G EEx d ia IIC T6)

① Measured media inside vessel must be non-flammable only.

HOUSING/CONDUIT CONNECTION

1	Cast Aluminum, Dual Compartment, 45° / 3/4" NPT (IP66)
2	Cast Aluminum, Dual Compartment, 45° / M20 (IP66)
3	Cast 316 SS, Dual Compartment, 45° / 3/4" NPT (IP66) ②
4	Cast 316 SS, Dual Compartment, 45° / M20 (IP66) ②

② Consult factory for delivery.



TECHNOLOGY / OPERATING FREQUENCY

R A	PULSAR radar antennas / 5.8/6.3 GHz
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CONFIGURATION / STYLE

A	TFE (Material of Construction codes A, B, C, and K only)
B	Polypropylene (Material of Construction codes A, G, K, and L only)
C	Halar® (Material of Construction codes G and L only)

MATERIAL OF CONSTRUCTION

A	316/316L stainless steel
B	Hastelloy® C
C	Monel®
G	All-Plastic wetted surfaces including flanges (Configuration/Style codes B and C only)
K	316/316L SS; ASME B31.1 and B31.3 (meets CRN specifications)
L	All-Plastic wetted surfaces; ASME B31.1, B31.3 (meets CRN specifications; Configuration/Style codes B and C only)

PROCESS CONNECTION - SIZE/TYPE ①

31	1½" NPT thread	32	1½" BSP (G 1½) thread
43	2" 150# ANSI raised face flange	DA	DN 50, PN 16 DIN 2527 Form B
44	2" 300# ANSI raised face flange	DB	DN 50, PN 25/40 DIN 2527 Form B
45	2" 600# ANSI raised face flange	DD	DN 50, PN 64 DIN 2527 Form E
53	3" 150# ANSI raised face flange	EA	DN 80, PN 16 DIN 2527 Form B
54	3" 300# ANSI raised face flange	EB	DN 80, PN 25/40 DIN 2527 Form B
55	3" 600# ANSI raised face flange	ED	DN 80, PN 64 DIN 2527 Form E
63	4" 150# ANSI raised face flange	FA	DN 100, PN 16 DIN 2527 Form B
64	4" 300# ANSI raised face flange	FB	DN 100, PN 25/40 DIN 2527 Form B
65	4" 600# ANSI raised face flange	FD	DN 100, PN 64 DIN 2527 Form E
73	6" 150# ANSI raised face flange	GA	DN 150, PN 16 DIN 2527 Form B
74	6" 300# ANSI raised face flange	GB	DN 150, PN 25/40 DIN 2527 Form B
75	6" 600# ANSI raised face flange	GD	DN 150, PN 64 DIN 2527 Form E

HYGIENIC PROCESS CONNECTIONS

4P	2" Triclover® type, 16 AMP	6P	4" Triclover type, 16 AMP
5P	3" Triclover type, 16 AMP	7P	6" Triclover type, 16 AMP

① Metal flanges welded to antenna; Plastic flanges and metal flanges with threaded antenna connection ordered separately. Refer to Optional Flanges chart on page 41.

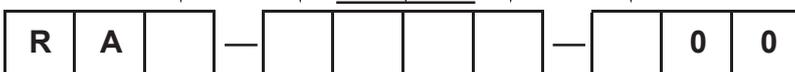
O-RINGS ⑤

0	Viton® GFLT
1	EPDM
2	Kalrez 4079
8	Aegis PF128

⑤ All-Polypropylene and All-Halar antennas (Materials of Construction Codes G and L) use Viton® GFLT O-rings

ANTENNA EXTENSION

0	For nozzle height ≤ 1" (25 mm) (For threaded process connection only)
1	For nozzle height ≤ 4" (100 mm)
2	For nozzle height ≤ 8" (200 mm) (ESP designation for TFE rod only)
3	For nozzle height ≤ 12" (300 mm)



TECHNOLOGY / OPERATING FREQUENCY

R A	PULSAR radar antennas / 5.8/6.3 GHz
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CONFIGURATION / STYLE

3	3" horn (for Standpipe/Stillwell use only; Materials of Construction codes A & K only)
4	4" horn
6	6" horn

MATERIAL OF CONSTRUCTION

A	316/316L stainless steel
B	Hastelloy C
K	316/316L SS; ASME B31.1 and ASME B31.3 (meets CRN specifications)

PROCESS CONNECTION - SIZE/TYPE

53	3" 150# ANSI raised face flange
54	3" 300# ANSI raised face flange
55	3" 600# ANSI raised face flange
63	4" 150# ANSI raised face flange
64	4" 300# ANSI raised face flange
65	4" 600# ANSI raised face flange
73	6" 150# ANSI raised face flange
74	6" 300# ANSI raised face flange
75	6" 600# ANSI raised face flange
FA	DN 100, PN 16 DIN 2527 Form B
FB	DN 100, PN 25/40 DIN 2527 Form B
FD	DN 100, PN 64 DIN 2527 Form E
GA	DN 150, PN 16 DIN 2527 Form B
GB	DN 150, PN 25/40 DIN 2527 Form B
GD	DN 150, PN 64 DIN 2527 Form E

HYGIENIC PROCESS CONNECTIONS

6P	4" Tri-Clover type, 16 AMP Hygienic Flange
7P	6" Tri-Clover type, 16 AMP Hygienic Flange

O-RINGS

0	Viton® GFLT
1	EPDM
2	Kalrez® 4079
8	Simriz SZ485 (formerly Aegis PF128)

ANTENNA EXTENSION

0	For 3" Horn in standpipes/stillwells only
1	For nozzle height ≤ 4" (100 mm) - Configuration Style code 4 only
2	For nozzle height ≤ 8" (200 mm)
3	For nozzle height ≤ 12" (300 mm)


OPTIONAL FLANGES (for use with Antenna Extension Codes 1–3 only)

Part Number:	2"		3"		4"		6"	
04-6852	150#	300#	150#	300#	150#	300#	150#	300#
316L Stainless Steel	-001	-005	-002	-006	-003	-007	-004	-008
304L Stainless Steel	-009	-013	-010	-014	-011	-015	-012	-016
Carbon Steel	-017	-021	-018	-022	-019	-023	-020	-024
Hastelloy C	-025	-029	-026	-030	-027	-031	-028	-032
Monel	-033	-037	-034	-038	-035	-039	-036	-040

Part Number:	2"		3"		4"		6"	
04-6852	150#	300#	150#	300#	150#	300#	150#	300#
Kynar	-041	-045	-042	-046	-043	-047	-044	-048
PVC	-049	-053	-050	-054	-051	-055	-052	-056
Polypropylene	-057	-061	-058	-062	-059	-063	-060	-064
TFE	-065	-069	-066	-070	-067	-071	-068	-072



RX5 Radar Transmitter Configuration Data Sheet

Copy blank page and store calibration data for future reference and troubleshooting.

Item	Value	Value	Item (factory defaults)	Value	Value
Vessel Name			Display Factory		
Vessel #			Diagnostics		
Media & Dielectric			Target Rejection Level		
Tag #			Launcher		
Electronics Serial #			Factory Cal		
Antenna Serial #			Peaks	#0	
Level				#1	
Distance				#2	
Quality				#3	
Units				#4	
Antenna Type			Algorithm		
Antenna Extension			Range		
Antenna Mounting			TVG Type		
Sensor Offset			TVG Maximum		
Tank Top			Fiducial Position		
Tank Height			Fiducial Gain		
Blocking Distance			System Gain		
Level Offset			Conversion Factor		
Dielectric			Cef dm/s		
Turbulence			Scale Offset		
Rate of Change			Distance Correction		
Amount of Foam			Echo Amplitude		
Targets	#1	Q___ - _____	# Run Average		
	#2	Q___ - _____	Adaptive Filter		
	#3	Q___ - _____	#Adap Average		
	#4	Q___ - _____	Scatter High		
	#5	Q___ - _____	Rate High		
Target Rejection			Scat Rate		
4 mA point			Peak Detect Reference		
20 mA point			Peak Detect Threshold		
Damping Factor			Minimum Threshold		
Sys Fault			ROC/min		
LOE Fault			Maximum Rate		
LOE Delay			Maximum dD		
SZ Fault			Safety Zone Hysteresis		
SZ Height			ES Delay		
SZ Alarm Reset			Data Log		
HART Poll Address					
Trim 4 mA					
Trim 20 mA					
Trim Level			Name		
Pipe ID			Date		
Loop Test			Time		
New Password			NOTES:		
Status					
Language					
Model RX5					
VerX.XXX					