



- Makes it possible to use Series 9790 antennas or antennas classed as intrinsically safe, and standard coaxial plug connectors in hazardous areas
- Flexible, can be used in a very wide temperature range
- Makes project-specific wireless solutions possible

MY R. STAHL 9730A



The Series 9730 HFisolator converts standard radio signals into intrinsically safe radio signals so that Series 9790 antennas or antennas classed as intrinsically safe can be used in hazardous areas. This allows for the development of project-specific solutions with Ex d encapsulation of radio devices, which differ only slightly from standard industrial solutions in terms of the way they are used.

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Ex interface	•	•	•	•	•	•
Installation in		•	•		•	•

	NEC® 500 CE Code Appendix J					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface	•		•			
Installation in	•		•			

Selection Table				
Frequency	500 MHz to 6 GHz			
Thread size	Product Type		Art. No.	Weight
M25	9730/37-25		258159	400 g

Technical Data	
Explosion Protection	
IECEX gas explosion protection	Ex db mb [ia Ga] IIA/IIB/IIC T6...T5 Gb
IECEX dust explosion protection	Ex mb tb [ia Da] IIIC T80°C / T100 °C Db
IECEX firedamp protection	Ex db mb [ia Ma] I Mb
ATEX gas explosion protection	⊕ II 2 (1) G Ex db mb [ia Ga] IIA/IIB/IIC T6...T5 Gb
ATEX dust explosion protection	⊕ II 2 (1) D Ex mb tb [ia Da] IIIC T80°C / T100 °C Db
ATEX firedamp protection	⊕ I M2 (M1) Ex db mb [ia Ma] I Mb
Certificates	ATEX (TUV CY), Canada / USA (QPS), IECEX (TUN)
Declaration of Conformity	ATEX (EUK)

Technical Data

Electrical Data

Insertion loss	Typical
	Frequency band Universal
	Frequency
	500 MHz 1.5 dB
	900 MHz 1.2 dB
	1.9 GHz 0.5 dB
	2.4 GHz 0.7 dB
	3 GHz 0.7 dB
	3.5 GHz 1.6 dB
	4.6 GHz 1.2 dB
	5 GHz 1.1 dB
	5.8 GHz 2.4 dB
	6 GHz 2.1 dB

Internal plug connector	RP-SMA plug
Internal plug connector note	External thread, with pin
External plug connector	N-type socket

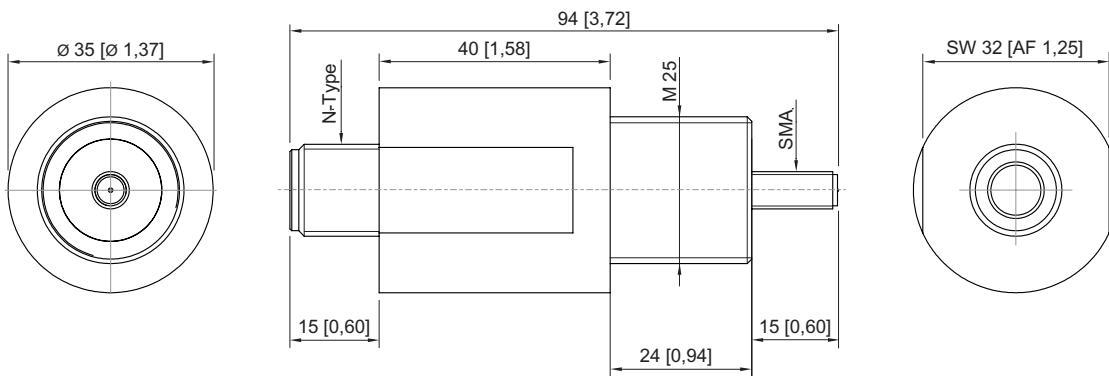
Ambient Conditions

Ambient temperature	-40 °C ... +65 °C
Storage temperature	-40 °C ... +85 °C

Mechanical Data

Degree of protection (IP)	IP66
Material	Stainless steel

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Type 9730/37-25