



- 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.

## Technical Data

### Explosion Protection

Application range (zones)	1 2 21 22
Ex interface zone	0 1 2 20 21 22
IECEX gas certificate	IECEX MSC 19.0001X
IECEX gas explosion protection	Ex db mb [ja Ga] IIA/IIB/IIC T6...T5 Gb
IECEX dust certificate	IECEX MSC 19.0001X
IECEX dust explosion protection	Ex mb tb [ja Da] IIIC T80°C / T100 °C Db
IECEX firedamp certificate	IECEX MSC 19.0001X
IECEX firedamp protection	Ex db mb [ja Ma] I Mb
ATEX gas certificate	TÜV CY 18 ATEX 0206158 X
ATEX gas explosion protection	⊕ II 2 (1) G Ex db mb [ja Ga] IIA/IIB/IIC T6...T5 Gb
ATEX dust certificate	TÜV CY 18 ATEX 0206158 X
ATEX dust explosion protection	⊕ II 2 (1) D Ex mb tb [ja Da] IIIC T80°C / T100 °C Db
ATEX firedamp certificate	TÜV CY 18 ATEX 0206158 X
ATEX firedamp protection	⊕ I M2 (M1) Ex db mb [ja Ma] I Mb
Certificates	ATEX (TUV CY), Canada / USA (QPS), IECEX (TUN)
Declaration of Conformity	ATEX (EUK)

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Maximum input power	IIC	2 W
	IIB	3.5 W
	IIA	6 W
	I, III	6 W

**Electrical Data**

Frequency	500 MHz to 6 GHz
Frequency band	Universal
Insertion loss	Typical <b>Frequency band Universal</b> <b>Frequency</b> 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

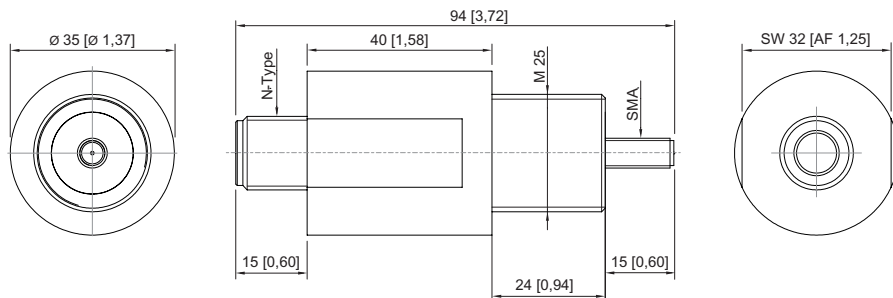
**Ambient Conditions**

Ambient temperature	-40 °C ... +65 °C
Ambient temperature	-40 °F ... +149 °F
Storage temperature	-40 °C ... +85 °C
Storage temperature	-40 °F ... +185 °F

**Mechanical Data**

Degree of protection (IP)	IP66
Material	Stainless steel
Width	35 mm
Height	94 mm
Thread size	M25
Weight	400 g
Weight	0.88 lb

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



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