

# HFisolator Series 9730



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16718E00

- > Allows the use of standard antennas in hazardous areas
- > Compact design
- > Variants for 900 MHz, 2.4 and 5 GHz
- > Extremely wide temperature range
- > Flexible use



A6

The HFisolator turns usual wireless signals into explosion-proof, intrinsically safe wireless signals. The signals are transmitted galvanically isolated between the input and the output. The transformation of the signal enables all advantages of intrinsic safety (Ex i/ I.S.) for the wireless signals: making use of the full spectrum of standard industrial antennas, making use of standard coax connectors and the fact that connecting or disconnecting the coax cable is permitted without deenergizing the wireless device in hazardous locations. The advantages of the HFisolator are especially obvious when it is used together a project-specific encapsulation (e.g. flameproof enclosures Ex d) of wireless devices for the operation in hazardous locations. STAHL is the ideal partner to enable your wireless solution in hazardous locations.

Zone	ATEX / IECEx					
	0	1	2	20	21	22
Ex i interface	x	x	x	x	x	x

**WebCode 9730A**

# HFisolator

## Series 9730



### Selection Table

Version	Frequency band	Frequency range	Order number	Weight kg
HFisolator Series 9730	900 MHz	860 ... 960 MHz	9730/12-11	0.400
	2.4 GHz	2.4 ... 2.5 GHz	9730/13-11	0.220
	5 GHz	4.9 ... 5.9 GHz	9730/14-11	0.150
	2.4 & 5 GHz	2.4 ... 2.5 & 4.9 ... 5.9 GHz	9730/15-11	0.450

### Explosion Protection

#### Global (IECEX)

Gas, dust and mining	IECEX BAS 14.0160 X [Ex ia Ga] IIC [Ex ia Da] IIIC [Ex ia Ma] I
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#### Europe (ATEX)

Gas, dust and mining	Baseefa 14 ATEX 0360 X ⊕ II (1) GD [Ex ia Ga] IIC, [Ex ia Da] IIIC ⊕ I (M1) [Ex ia Ma] I
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#### Certifications and certificates

Certificates	IECEX, ATEX
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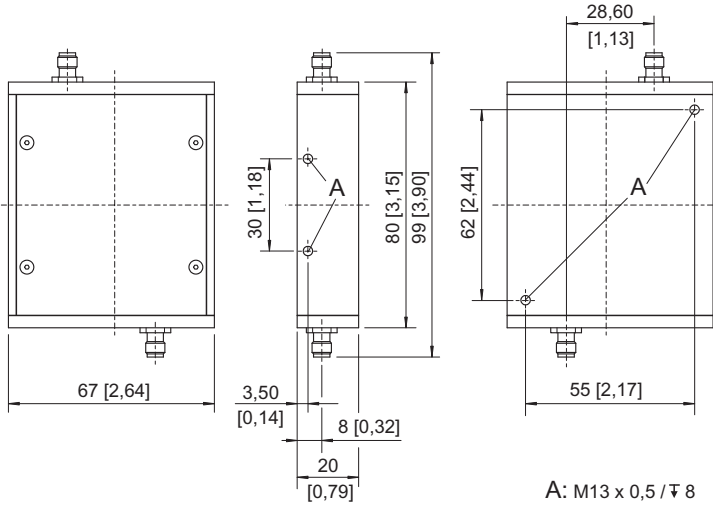
#### Safety data

Isolation voltage	253 V AC
Maximum input power	IIC 2 W
	IIB 3.5 W
	IIA 6 W
	I, III 6 W

### Technical Data

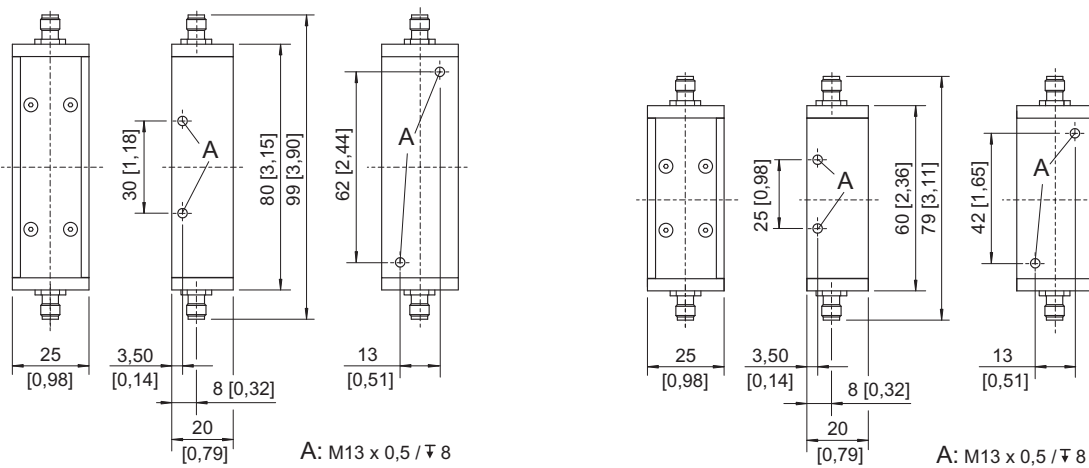
Design	9730/12-11	9730/13-11	9730/14-11	9730/15-11
<b>Electrical data</b>				
Frequency range	860 ... 960 MHz	2.4 ... 2.5 GHz	4.9 ... 5.9 GHz	2.4 ... 2.5 & 4.9 ... 5.9 GHz
Insertion loss, typical	< 1.3 dB	< 1.4 dB	< 1.5 dB	< 1.85 & < 2.45 dB
Insertion loss, maximum	1.7 dB	1.7 dB	1.9 dB	1.9 & 3.4 dB
Return loss	< 20 dB	< 20 dB	< 15 dB	< 20 & 15 dB
Connection, coaxial	SMA socket (female)	SMA socket (female)	SMA socket (female)	SMA socket (female)
<b>Mechanical data</b>				
Dimensions	100 x 65 x 20 mm	100 x 25 x 20 mm	80 x 25 x 20 mm	150 x 67 x 20 mm
Mounting orientation	any	any	any	any
Degree of protection	IP40	IP40	IP40	IP40
Enclosure material	Nickel coated aluminium	Nickel coated aluminium	Nickel coated aluminium	Nickel coated aluminium
<b>Ambient conditions</b>				
Operating temperature	-60 °C ... +80 °C	-60 °C ... +80 °C	-60 °C ... +80 °C	-60 °C ... +80 °C
Storage temperature	-60 °C ... +80 °C	-60 °C ... +80 °C	-60 °C ... +80 °C	-60 °C ... +80 °C
Relative humidity (no condensation)	≤ 95 %	≤ 95 %	≤ 95 %	≤ 95 %

**Dimensional drawings** (All dimensions in mm[inches]) - subject to alterations



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**Type 9730/12-11**

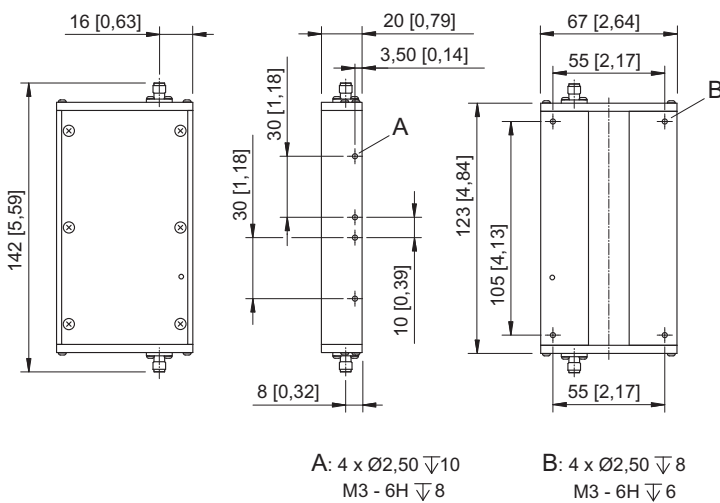


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**Type 9730/13-11**

**Type 9730/14-11**



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**Type 9730/15-11**

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.