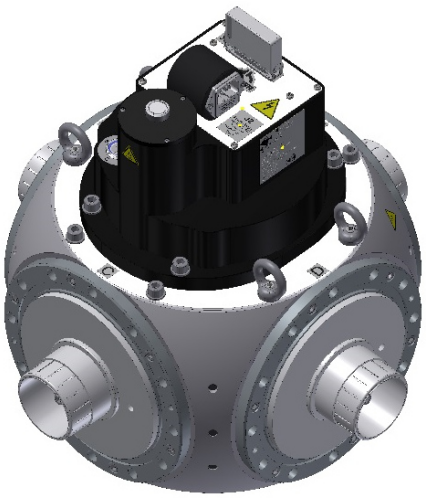
Coaxial Two Way Switch (DPDT) || BN 941989C0110



Product manual: M36025

Radio frequency characteristics

Interface type (4 connections)	6 1/8" EIA according to EN 122150 (threaded flanges)			
Characteristic impedance	50 Ω			
Frequency range	1 MHz	10 MHz	100 to 230 MHz	230 to 800 MHz
VSWR, max.	1.06	1.06	1.06	1.08
Isolation, min.	75 dB	75 dB	75 dB	70 dB
Insertion loss, max.	0.03 dB			
Average power capability * at ambient temperature -10 to +45°C	1000 kW	350 kW	110 kW	60 kW
Peak voltage capability *	18.6 kV			

Electrical and mechanical data

Switch type		Two way switch, DPDT
Actuator type		Motor drive, latching, self cutoff
Connector J2 ** for mains connection		IEC appliance inlet C14 according to IEC 60320-1
Mains connection		L, N, PE, TN-System
Operating	Operating voltage	95 to 140 V AC 50/60 Hz
	Current, typ. ***	1.5 A
	Nominal fuse	F1 / F2: 2 A T
Connector J1 ** for control, interlock contacts and signaling		25 pole connector according to DIN 41652 / IEC 807-2
Control	Control voltage	SELV circuits according to IEC EN 60950-1, 8 to 31 V DC
	Current, typ.	12 mA at control voltage 24 V DC

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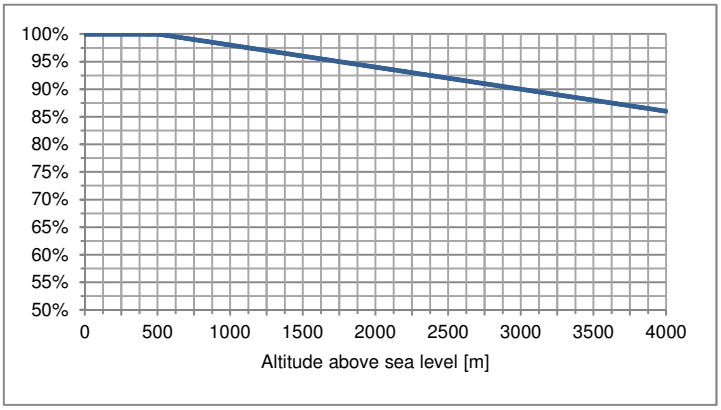
	Nominal fuse	The circuit must be externally fused with 0.5 A
Signal contacts Interlock contacts	Lead time typ.***	200 ms (the interlock/signal contacts open 200 ms before and close 200 ms after switching of the RF contacts)
	Maximum ratings	SELV circuits according to IEC EN 60950-1, 42.4 V ACpk / 60 V DC / 0.5 A
	Nominal fuse	The circuit must be externally limited to 0.5 A
Switching time, typ.***		1.2 s
Command hold time, min.		1.2 s (during this time, the voltage at control input must not change)
Switching frequency, max.		3 cycles per minute, max. 30 cycles per hour (6 operations per minute, max. 60 operations per hour)
Life, min.		250,000 cycles (500,000 operations)
Weight, approx.		38 kg

Environmental conditions

Operational conditions	ETSI EN 300 019-1-3 V2.3.2 (2009-1) class 3.1 N
Ambient temperature ****	-10 to +60°C
Condensation	Not allowed
Relative humidity, max.	95%
Derating of input power with increasing altitude	The maximum input power can be applied up to 500 m or 1600 ft above sea level unless noted otherwise in the data sheet. Above this height the maximum input power must be reduced as shown in the diagram. 

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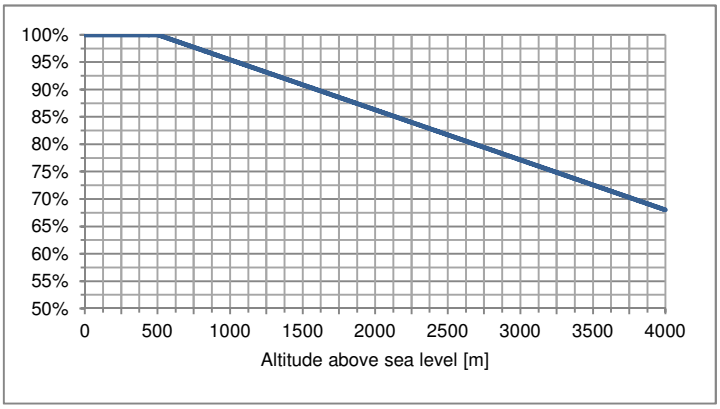
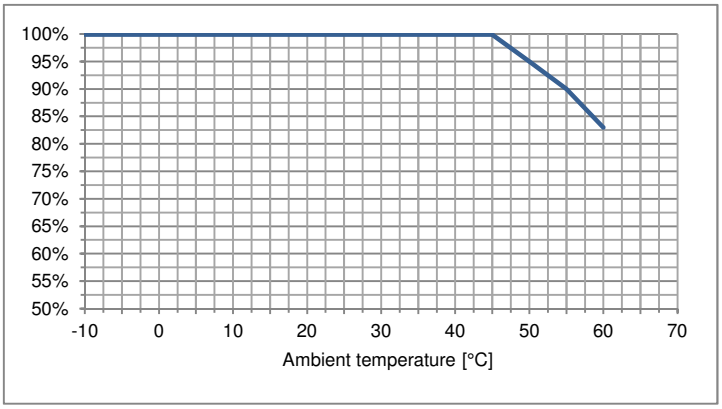
Derating of voltage with increasing altitude	The maximum voltage can be applied up to 500 m or 1600 ft above sea level unless noted otherwise in the data sheet. Above this height the voltage must be reduced as shown in the diagram. 
Derating of input power with increasing ambient temperature	The maximum input power can be applied up to +45°C ambient temperature unless noted otherwise in the data sheet. Above this ambient temperature the maximum input power must be reduced as shown in the diagram. 
Max. altitude above sea level	4,000 m or 13,120 ft according to IEC EN 60664-1
Protection class	I according to IEC EN 61140
IP protection level	IP40 according to IEC EN 60529 (all interfaces equipped with appropriate gaskets)
Installation position	Any
Transport conditions	ETSI EN 300 019-1-2 V2.1.4 (2003-04) class 2.2
Ambient temperature	-25 to +70°C
Rain, condensation, icing	Not allowed
Storage conditions	ETSI EN 300 019-1-1 V2.1.4 (2003-04) class 1.2
Ambient temperature	-10 to +60°C
Rain, condensation, icing	Not allowed

* *Standard conditions:*
Dielectric: Dry air under standard pressure at sea level (p = 1013 hPa)
Load VSWR, max. 1.0 (no standing wave)
No modulation, sinusoidal carrier only
** *Suitable US power supply cord and 25 pole mating connector included*
*** *At room temperature and nominal voltage 120 V AC, 60 Hz*
**** *Extended temperature range on request*

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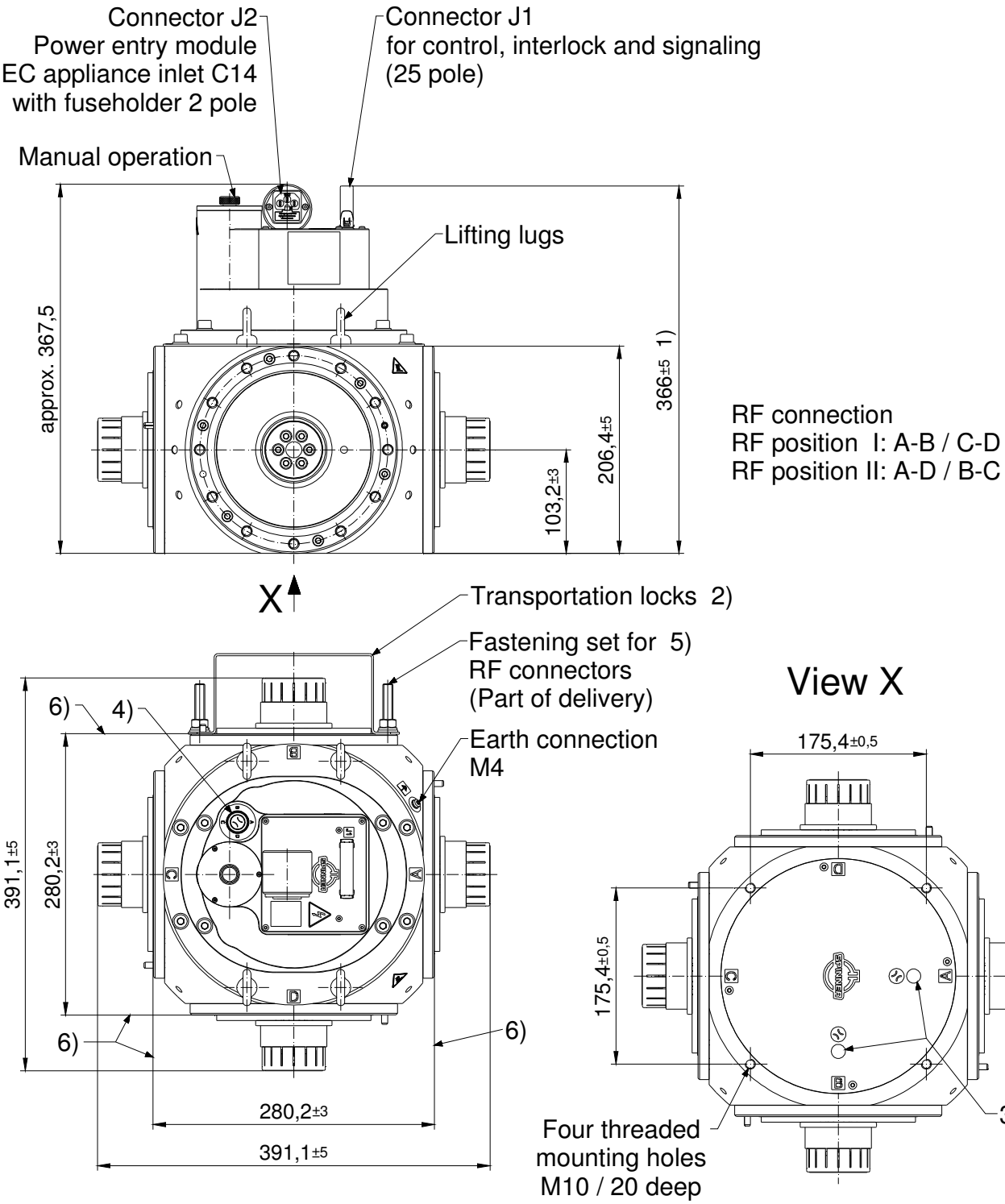
Outline (all dimensions in millimeters)



1) + 10 mm to disconnect the connectors
2) Only shown once, to remove before installation
3) Position indicator bottom side - current position is shown by white dot (marking)
4) Position indicator top side - current position is shown by pictogram
5) Altogether 48 (8 used for transportation locks)
6) Reference plane

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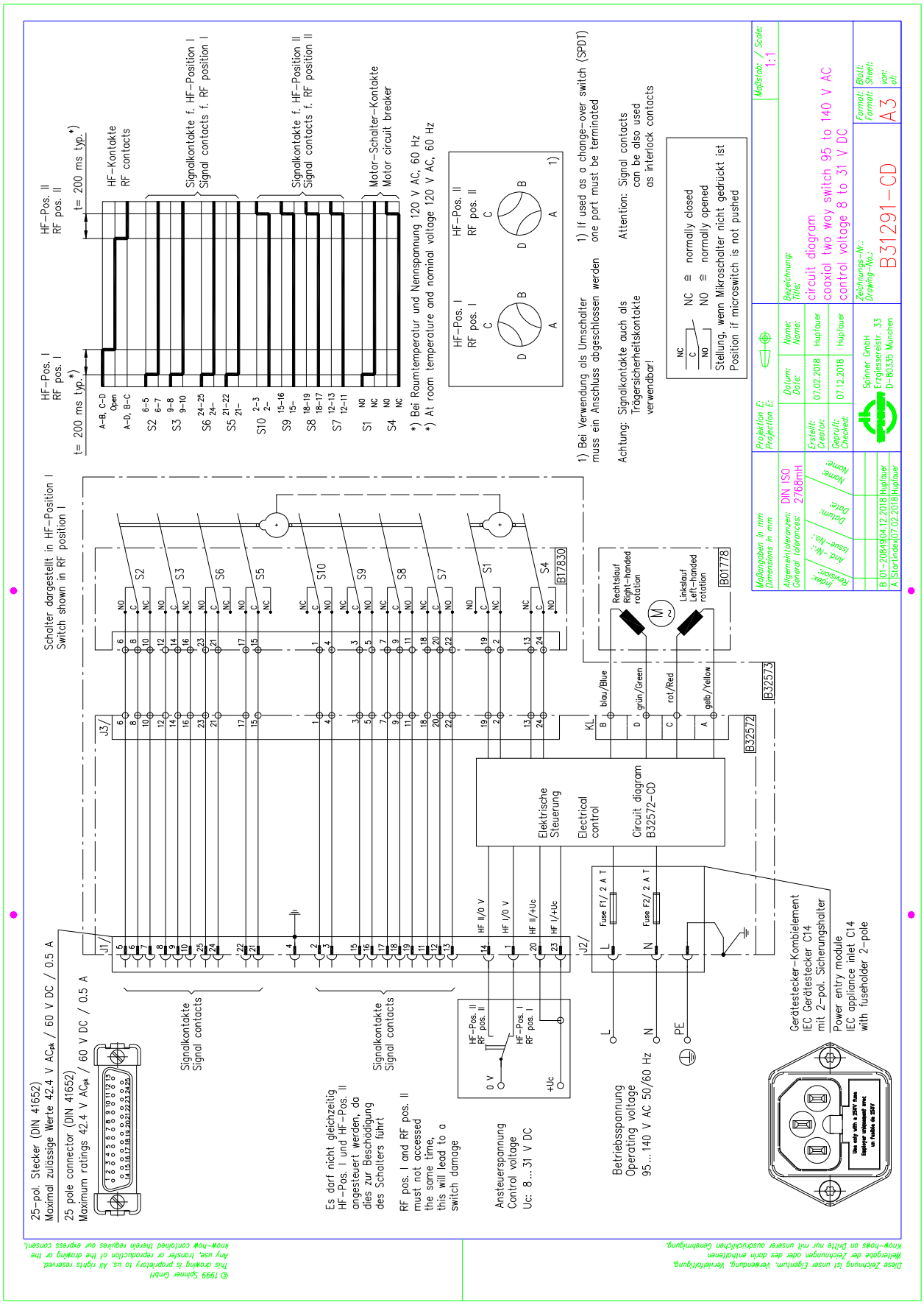
Circuit diagram



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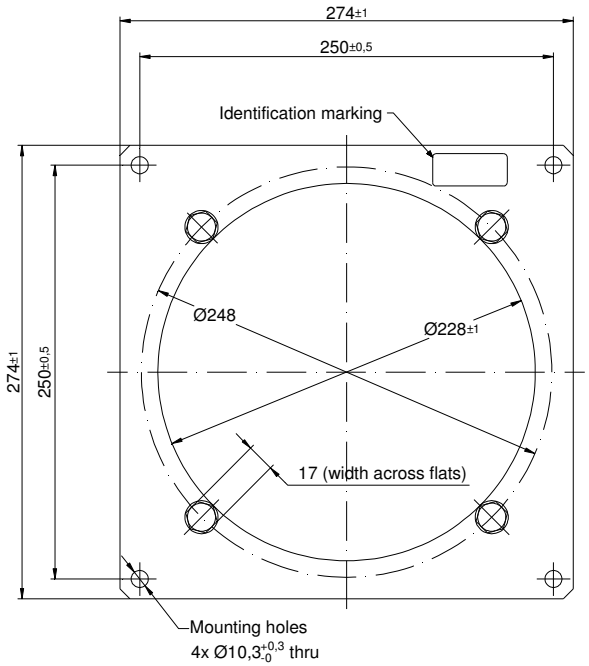
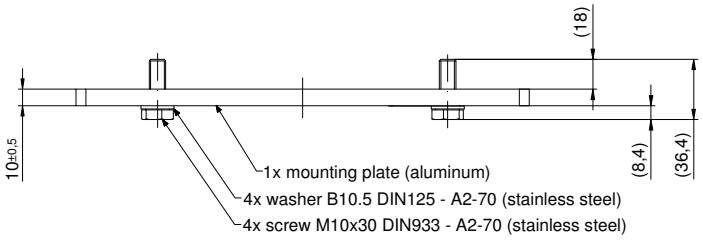
Assessories (optional)

Installation kit BN 941989C3000

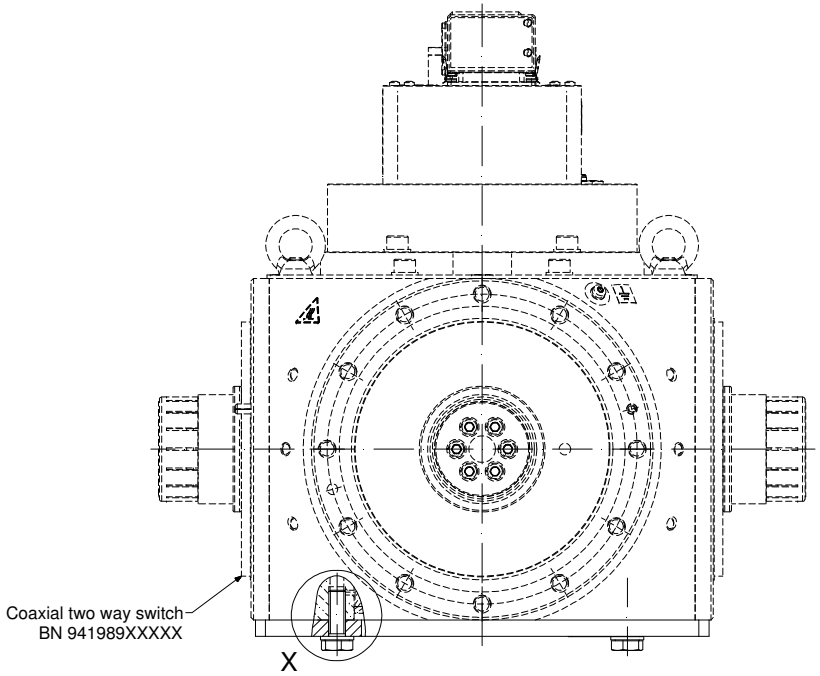
Installation kit BN 941989C3000:

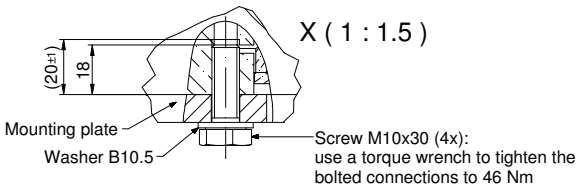




Do not use the installation kit to support additional mechanical loads.

Installation instructions for BN 941989C3000-installation kit:





Maßangaben in mm / Dimensions in mm	Projektion E: / Projection E:				Maßstab: / Scale: 1 : 2,5
Allgemeintoleranzen: / General tolerances: DIN ISO 2768mH		Datum: / Date:	Name: / Name:	Bezeichnung: / Title:	
Index: / Revision: · Änd.-Nr.: / Issue-No.: · Datum: / Date: · Name: / Name:	Erstellt: / Creator:	14.02.2019	Hupfauer	installation kit for coaxial two way switch (DPDT) 6 1/8" (50 Ohm)	
	Geprüft: / Checked:	18.02.2019	Hupfauer		
A Startindex 14.02.2019 Hupfauer	Spinner GmbH Erzgiesserelstr. 33 D-80335 München			Zeichnungs-Nr.: / Drawing-No.: 941989C3000-0E	Format: / Format: A3 · Blatt: / Sheet: 1 · von: / of: 1