



## **Gyro Compass GyroStar //**

**with:**

**Additional Configuration: PLUS PACKAGE**

**Additional Configuration: PLUS SEC PACKAGE**

**Additional Configuration: PLUS SYSTEM PACKAGE**

**Additional Configurations with:**

- Distributor Compact 110-224 NG001/NG002**
- Operator Unit 130-601/130-602/130-605**
- Control Unit GY01 or GY03**

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## Please note:

“GyroStar //” and “GyroStar // with PLUS...PACKAGE” are absolut identically compasses. The different designations as there are “GyroStar // PLUS PACKAGE”, “GyroStar // PLUS SEC PACKAGE“ and “GyroStar // PLUS SYSTEM PACKAGE” depends on the connected equipment.

The so called “stand-alone-system” is a GyroStar // with the equipment,

Junction box, type 138-113

Repeater compass, type 133-558 (optional)

AC/DC Converter, type 121-058 (optional)

Quick Settling control unit, type 130-606 NG001 (optional)

Dongles for QS and SEC (optional)

The compass GyroStar // additional configuration: “PLUS PACKAGE” is connected:  
via the Connection box, type 138-113 to the  
Distributor Compact, type110-224 NG001 or NG002.

The compass GyroStar // additional configuration: “PLUS SEC PACKAGE” is connected:  
via the Connection box, type 138-113 to the  
Distributor Compact, type110-224 NG001 or NG002  
(with SEC-function) and with Operator Unit, type 130-601.

The compass GyroStar // additional configuration: “PLUS SYSTEM PACKAGE” is  
connected to: the Control Unit, type GY01 and the  
Operator Unit, type 130-601/602/605

While connecting to the Control Unit and/or the Distributor Compact, there are restrictions depending on the Speed Error correction.

This GyroStar // “PLUS....PACKAGE”-family has no restrictions depending the size of a vessel.



In general:  
All designations "STANDARD 20" and "STANDARD 20 PLUS"  
in this or appended manuals must be designated in the  
meaning of GyroStar // PLUS....PACKAGE.

For connecting a GyroStar // additional configuration: "PLUS PACKAGE" to a Distributor Compact see drawings:

10-C0-D-X00009-C and Assembly drawing 110 C 231 HP010 in this manual.

For connecting a GyroStar // additional configuration: "PLUS SEC PACKAGE" to a Distributor Compact see drawing:

10-C0-D-X00010-C and Assembly drawing 110 C 231 HP010 in this manual.

For connecting a GyroStar // additional configuration: "PLUS SYSTEM PACKAGE" to a Control Unit see drawing 10-C90-D-X00011-C.



The connection of a GyroStar // additional configuration:  
PLUS PACKAGE to a Control Unit and or to a  
Distributor Compact is different to a connection of a  
STANDARD 20 compass.  
The operation is identical.

Restrictions on the combination of a GyroStar // PLUS...PACKAGE with a Control Unit and with a Distributor Compact are shown in the following sections.




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**Annex: Drawings:**

- 10-C0-D-X00009-C Cable and Connection Diagram  
GyroStar // additional configuration: "PLUS PACKAGE" (GyroStar // with Distributor Compact)
- 10-C0-D-X00010-C Cable and Connection Diagram  
GyroStar // additional configuration: "PLUS SEC PACKAGE" (GyroStar // with Distributor Compact and Operator Unit 130-601)
- 10-C0-D-X00011-C Cable and Connection Diagram  
GyroStar // additional configuration: "PLUS SYSTEM PACKAGE" (Gyro Star // with Control Unit GY... and Operator Unit 130-601/130-602/130-605) Sheets 1 and 2
- 110 C 231 HP010 Assembly drawing for GyroStar // PLUS....PACKAGE

**Additional manuals (depending on order-configuration):**

## Operator Manual 3125E.DOC012:

- Gyro Compass Equipment STANDARD 20 PLUS (Control Unit, type GY01 or GY03 and Operator Unit STANDARD 20, type 130-601 E01)

## Service Manual 3125EDOC032:

- Gyro Compass Equipment STANDARD 20 PLUS (Control Unit, type GY01 or GY03 and Operator Unit STANDARD 20, type 130-601 E01)

## Service Manual 3002E/100-224.NG001.DOC032

- Distributor COMPACT, type 110-224 NG001

Service Manual 3113E/110-224.NG002.DOC032

- Distributor COMPACT wth Speed-error Correction,  
type 110-224 NG002

Operator Manual 3099E.DOC012

- Gyro Compass Equipment STANDARD 20 COMPACT  
with Speed-error Correction  
(Systemdescription)

Service Manual 3099E.DOC032

- Gyro Compass Equipment STANDARD 20 COMPACT  
with Speed-error Correction  
(Systemdescription)

Operator Manual 3165E.DOC012

- Gyro Compass Equipment with  
Control Unit GY01/GY03  
Operator Unit TMC 130-605  
Magnetic Sonde 108-010  
(Systemdescription)

Service Manual 3165E.DOC032

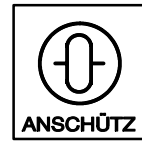
- Gyro Compass Equipment with  
Control Unit GY01/GY03  
Operator Unit TMC 130-605  
Magnetic Sonde 108-010  
(Systemdescription)

Operator Manual 3072E.DOC012

- Gyro Compass Equipment with  
Control Unit GY01/GY03  
Operator Unit 130-601  
Magnetic Sonde 108-010  
Operator Unit 130-602  
(Systemdescription)

Service Manual 3072E.DOC032

- Gyro Compass Equipment with  
Control Unit GY01/GY03  
Operator Unit 130-601  
Magnetic Sonde 108-010  
Operator Unit 130-602  
(Systemdescription)



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## 1 Features of GyroStar // PLUS...PACKAGE-Family

Some functions are restricted while connected to a Distributor Compact or a Control Unit:

GyroStar // additional configuration: "PLUS SYSTEM PACKAGE" connected to a Control Unit.

- no dongles can be inserted (connection without Connection Box).  
Speed Error Correction is performed via the Operator Unit.

GyroStar // additional configuration: "PLUS SEC PACKAGE" connected to a Distributor Compact, type 110-224

- dongle for Quick Settling can be inserted into the Connection box, type 138-113.  
Speed Error Correction is performed via the Operator Unit.

GyroStar // additional configuration: "PLUS PACKAGE" connected to a Distributor Compact, type 110-224

- Because a connection of an Operator Unit the dongle for Quick settling function may be inserted into the junction box, type 138-113 (optional).  
This GyroStar // additional configuration: "PLUS PACKAGE" has no Speed Error Function.


In general it is not allowed to combine the power supply (24VDC) in another way, than shown in the drawings.

The power capacity of the Control Unit is able to supply one GyroStar // additional configuration: "PLUS SYSTEM PACKAGE", but the Distributor Compact has not enough power capacity to supply a GyroStar // additional configuration: "PLUS PACKAGE" or a GyroStar // additional configuration: "PLUS SEC PACKAGE".


Alarm indication and operating principles of the GyroStar // additional configurations: "PLUS PACKAGE", "PLUS SEC PACKAGE" or "PLUS SYSTEM PACKAGE" are not restricted.

## 1.1 GyroStar // additional configuration: "PLUS PACKAGE" (Combination of GyroStar // with Distributor Compact, type 110-224 NG001)

A GyroStar // additional configuration: "PLUS PACKAGE" has to be connected to a Distributor Compact via the Junction box, type 138-113 (see also manual 3490 "GyroStar //"), drawing nos.: 10-C0-D-X00009-C and Assembly Drawing 110 C 231 HP010 in this manual.

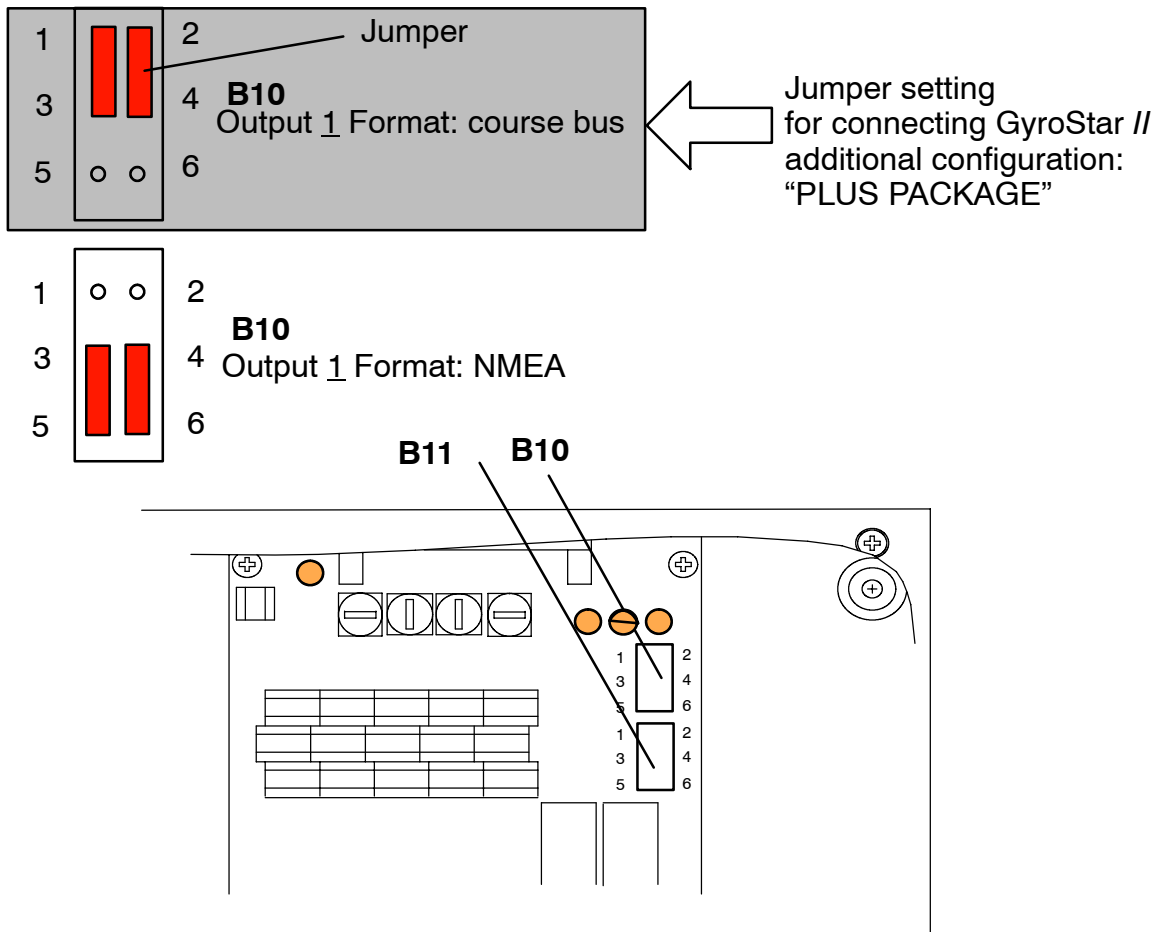
	<p><u>GyroStar // additional configuration: "PLUS PACKAGE" connected to a Distributor Compact, type 110-224 NG001</u> Only the dongle for Quick Settling can be inserted into the Junction Box, type 138-113.</p> <p><b>Caution:</b> It is not allowed to insert a dongle for Speed Error Correction into the Distribution Box 138-113</p>
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For alarm indication see operation manual 3490 "GyroStar //", section 4. Operating principles for GyroStar // additional configuration: "PLUS PACKAGE" and Distributor Compact are not restricted.

	<p>It is only allowed to connect the power supply for the GyroStar // additional configuration: "PLUS PACKAGE" and the Distributor Compact as shown in the respective drawings in this manual.</p>
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### 1.1.1 Connections and jumpering hints




#### **Output 1:**

Distributor Compact has to be connected to terminal strip as below mentioned:  
Terminal strip L4 (see also Connection diagram for GyroStar // PLUS...PACKAGE in this manual):


Connection box 138-113	Distributor Compact 110-224	
Terminal 1	L1.70	TX + (course data )
Terminal 2	L1.42	TX - (course data )
Terminal 14	L1.71	TX GND (reference course data)

## 1.2 GyroStar // additional configuration: "PLUS SEC PACKAGE" (Combination of GyroStar // with Distributor Compact, type 110-224 NG002 and Operator Unit 130-601)

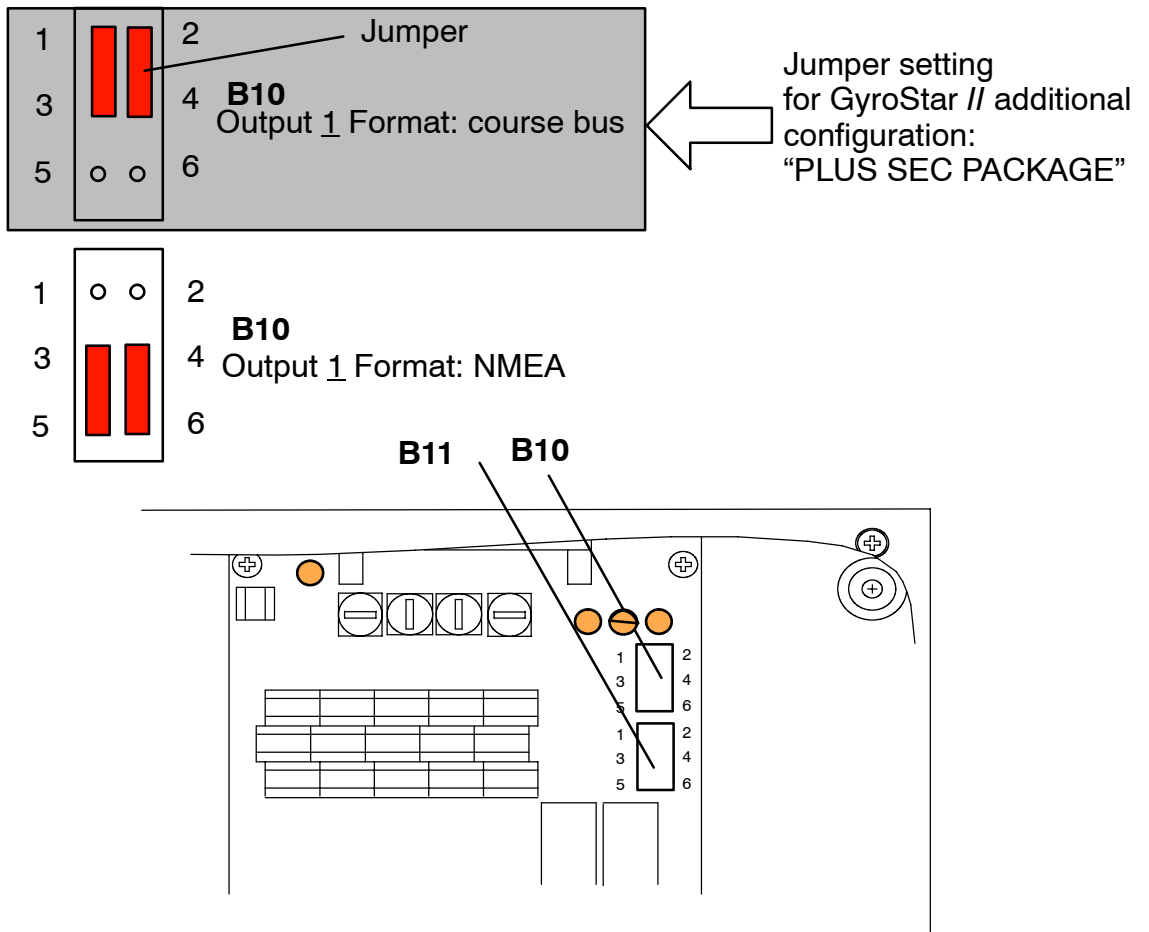
A GyroStar // additional configuration: "PLUS SEC PACKAGE" has to be connected to a Distributor Compact via the Junction box, type 138-113 (see also manual 3490 "GyroStar //"), drawing nos.: 10-C0-D-X00009-C and Assembly Drawing 110 C 231 HP010 in this manual.

	<u>GyroStar // additional configuration: "PLUS SEC PACKAGE" connected to a Distributor Compact, type 110-224 NG002 and Operator Unit 130-601</u>
	<p>Only the dongle for Quick Settling can be inserted into the Junction Box, type 138-113.</p> <p><b>Caution:</b> It is not allowed to insert a dongle for Speed Error Correction into the Distribution Box 138-113. In this case the Speed Error Function is performed by the Operator Unit.</p>

For alarm indication see operation manual 3490 "GyroStar //", section 4.  
Operating principles for GyroStar // additional configuration: "PLUS SEC PACKAGE", Distributor Compact and Operator Unit are not restricted.

	<p>It is only allowed to connect the power supply for the GyroStar // additional configuration: "PLUS SEC PACKAGE" and the Distributor Compact as shown respective drawings in this manual.</p>
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### 1.2.1 Connections and jumpering hints



**Output 1:**

Distributor Compact has to be connected to terminal strip as below mentioned: Terminal strip L4 (see also Connection diagram for GyroStar // additional configurations: "PLUS....PACKAGE" in this manual):

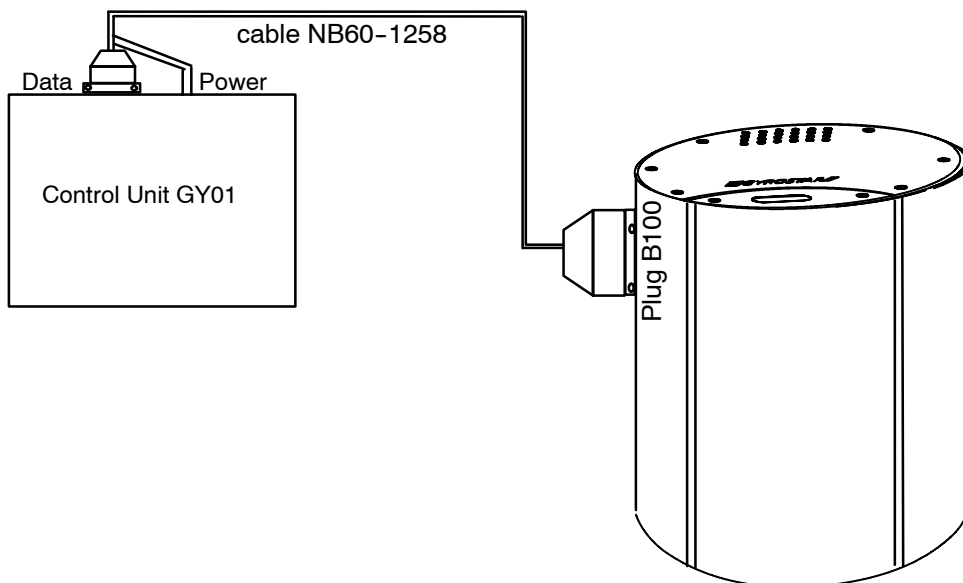
Connection box 138-113	Distributor Compact 110-224	
Terminal 1	L1.70	TX + (course data )
Terminal 2	L1.42	TX - (course data )
Terminal 14	L1.71	TX GND (reference course data)

### 1.3 GyroStar // additional configuration: "PLUS SYSTEM PACKAGE" (Combination of GyroStar II with Control Unit GY01 and Operator Unit 130-601/130-602/130-605)

A GyroStar // additional configuration: "PLUS SYSTEM PACKAGE" has to be connected to a Control Unit with cable no.: NB60-125 see drawing no.: 10-C0-D-X00011-C.

For alarm indication see operation manual 3490 "GyroStar //", section 4.  
Operating principles for GyroStar //, Control Unit and respective Operation Unit are not restricted.


#### 1.3.1 Connections hints






### Connection hints for Gyro 1

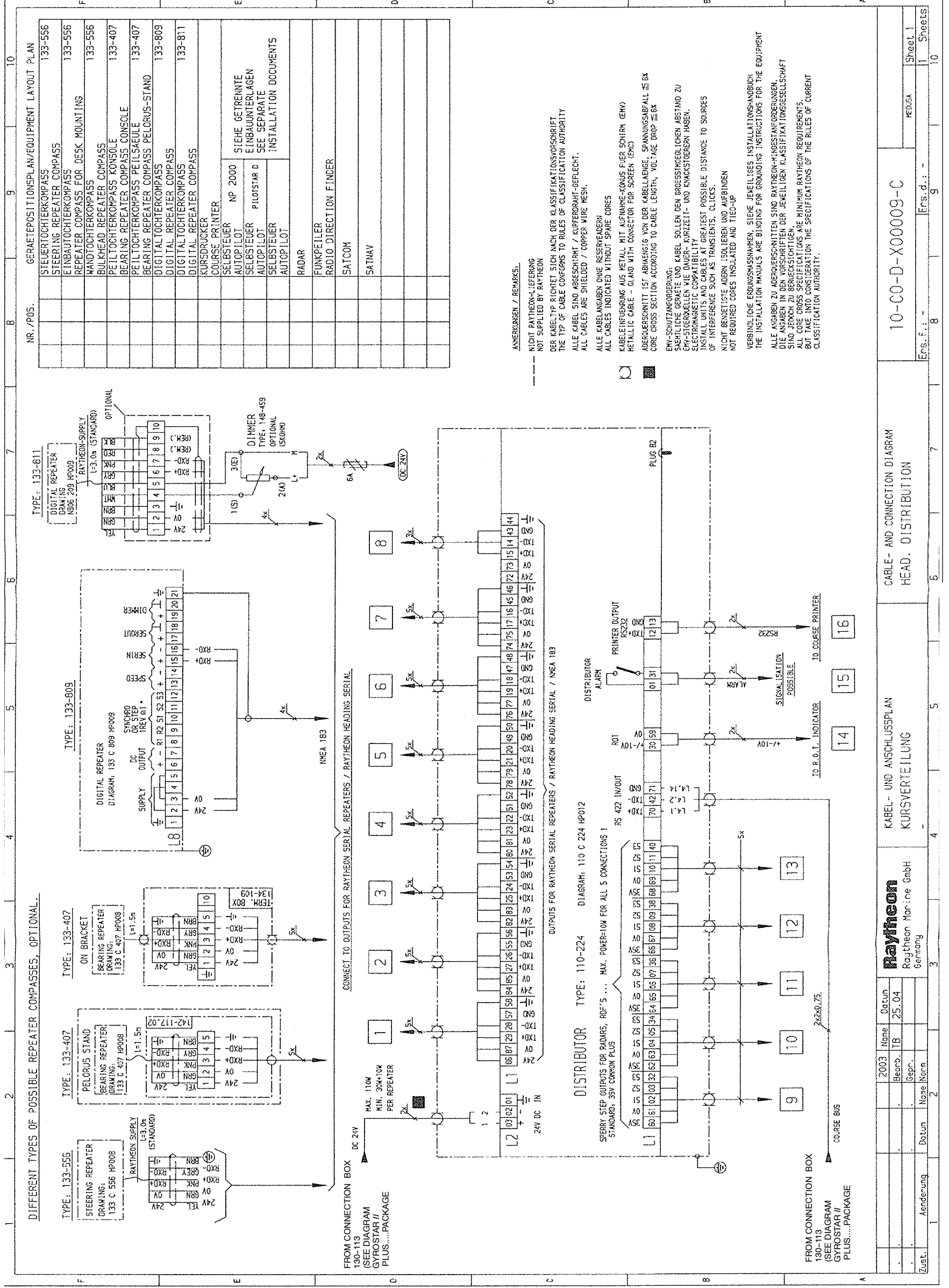
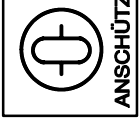
<b>GyroStar // additional configuration: "PLUS SYSTEM PACKAGE" Plug B100</b>	<b>Control Unit GY01 (Transfer Module STD 20, U22)</b>	
Below mentioned connections are performed via the cable NB60-125 with plugs on both ends		
Terminal 5	Modul U22 Plug B11 Terminal 2	TX + (course data )
Terminal 24	Modul U22, Plug B11, Terminal 1	TX - (course data )
<b>GyroStar // additional configuration: "PLUS SYSTEM PACKAGE" Plug B100</b>	<b>Control Unit GY01 Terminal board L2</b>	
Below mentioned connections are performed via the cable NB60-125 by screwing at terminals		
Terminals 17,37,36 or 18	Terminal board L2 Terminal 31	+ 24VDC
Terminals 15,34,16, or 35	Terminal board L2 Terminal 12	(0V)

Cable screen has to be connected at  of terminal board L2 of the Control Unit.

**Connection hints for Gyro 2**

<b>GyroStar // additional configuration: “PLUS SYSTEM PACKAGE” Plug B100</b>	<b>Control Unit GY01 (Transfer Module STD 20, U22)</b>	
Below mentioned connections are performed via the cable NB60-125 with plugs on both ends		
Terminal 5	Modul U22, Plug B13 Terminal 2	TX + (course data )
Terminal 24	Modul U22, Plug B13, Terminal 1	TX - (course data )
<b>GyroStar // additional configuration: “PLUS SYSTEM PACKAGE” Plug B100</b>	<b>Control Unit Gx01 o Terminal board L2</b>	
Below mentioned connections are performed via the cable NB60-125 by screwing at terminals		
Terminals 17,37,36 or 18	Terminal board L2 Terminal 33	+ 24VDC
Terminals 15,34,16, or 35	Terminal board L2 Terminal 14	(0V)

Cable screen has to be connected at () of terminal board L2 of the Control Unit.



GERÄTEPOSITIONSPLAN/EQUIPMENT LAYOUT PLAN

NR./POS.	GERÄTEPOSITIONSPLAN/EQUIPMENT LAYOUT PLAN
133-555	STEUERREPEATER
133-556	EINBAUTREATER
133-556	REPEATER COMPASS FOR DESK MOUNTING
133-556	HANDREPEATER
133-407	BULKHEAD REPEATER COMPASS
133-407	PELORUS REPEATER COMPASS CONSOLE
133-407	BEARING REPEATER COMPASS CONSOLE
133-407	PELORUS REPEATER COMPASS PELOUS-STAND
133-809	DIGITAL REPEATER COMPASS
133-811	DIGITAL REPEATER COMPASS
	KURSDRUCKER
	COURSE PRINTER
	SELBSTEUER NP 2000
	SELEPILOT
	SELBSTEUER PILOTSTAR D
	SELBSTEUER
	AUTOPLOT
	RADAR
	FUNKPEILER
	RADIO DIRECTION FINDER
	SATCOM
	SATNAV
	SIEMENS GETRENNTE EINBAUUNTERLAGEN
	SEE SEPARATE INSTALLATION DOCUMENTS

**ANMERKUNGEN / REMARKS:**

**NICHT RAYTHEON-LIEFERUNG**  
NOT SUPPLIED BY RAYTHEON

DER KABELTYP RICHTET SICH NACH DER KLASSIFIKATIONSVORSCHRIFT  
THE TYPE OF CABLE CONFORMS TO RULES OF CLASSIFICATION AUTHORITY

ALLE KABEL SIND ABSCHIRMT / KUPFERART-GEFLECHT.  
ALL CABLES ARE SHIELDED / COPPER WIRE MESH.

ALLE KABELN ABGEBEN OHNE RESERVELEITUNG  
ALL CABLES INDICATED WITHOUT SPARE CORES

METALLIC CABLE - GROUND WITH CONNECTOR FOR SHIELD (EMW)

ADERQUERSCHNITT IST ABHÄNGIG VON DER KABELLÄNGE, SPANNUNGSABFALL UND  
CORE CROSS SECTION ACCORDING TO CABLE LENGTH, VOLTAGE DROP AND

EMV-SCHUTZANFORDERUNG:  
SPEZIELLE SEPARETE UND KABEL SOLLTEN DEN GROSSTREUBERLEICHEN ABSTAND ZU  
SPEZIELLE SEPARETE UND KABEL SOLLTEN DEN GROSSTREUBERLEICHEN ABSTAND ZU  
SPEZIELLE SEPARETE UND KABEL SOLLTEN DEN GROSSTREUBERLEICHEN ABSTAND ZU  
SPEZIELLE SEPARETE UND KABEL SOLLTEN DEN GROSSTREUBERLEICHEN ABSTAND ZU  
SPEZIELLE SEPARETE UND KABEL SOLLTEN DEN GROSSTREUBERLEICHEN ABSTAND ZU

NICHT BENÖTIGTE ADERN ISOLIEREN UND AUFBEHÄLTEN  
NOT REQUIRED CORES INSULATED AND TIED-UP

VERBODLICHE ERDGUNGSMASSNAHMEN - SIEHE JEWEILIGES INSTALLATIONSHANDBUCH  
THE INSTALLATION MANUALS ARE BINDING FOR GROUNDING INSTRUCTIONS FOR THE EQUIPMENT

DIE ANGABEN IN DEN VORSCHRIFTEN SIND RAYTHEON-MINDESTANFORDERUNGEN.  
SIND JEDOCH ZU BEACHTEN.  
ALLE CORE SPECIFICATIONS ARE MINIMUM RAYTHEON REQUIREMENTS,  
BUT TAKE INTO CONSIDERATION THE SPECIFICATIONS OF THE RULES OF CURRENT  
CLASSIFICATION AUTHORITY.

**Raytheon**  
Raytheon Marine GmbH  
Germany

**KABEL- UND ANSCHLUSSPLAN**  
KURSVERTEILUNG

**CABLE- AND CONNECTION DIAGRAM**  
HEAD. DISTRIBUTION

10-C0-D-X0009-C

Ers.f.: 8      Ers.d.: 9

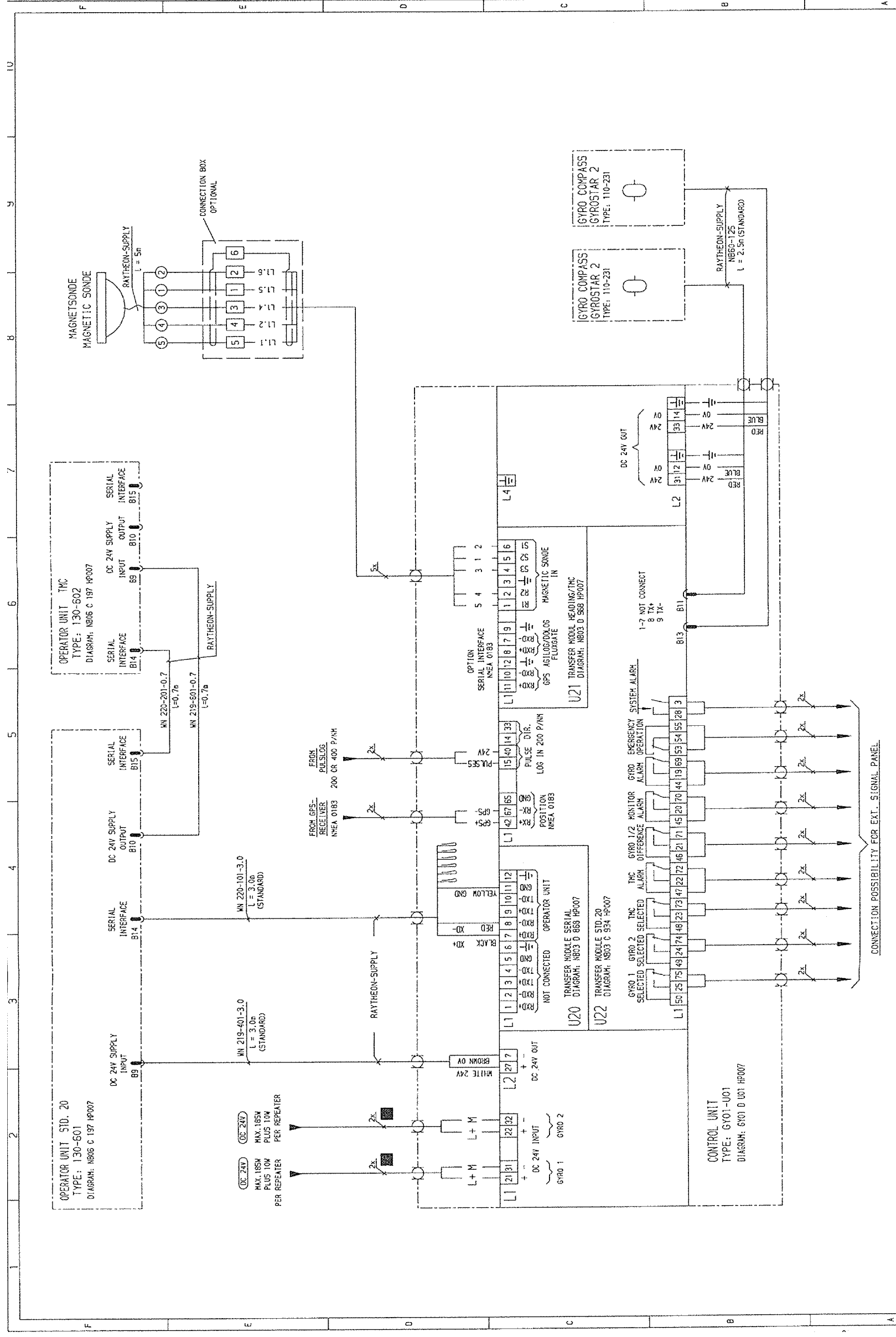
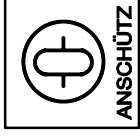
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Sheet 1

10 Sheets







Zust.		Änderung		Datum		Name		Norm.	
2003		None		Datum		None		25.04	
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Gepr.						None			
Gepr.						None			
None						None			
None						None			

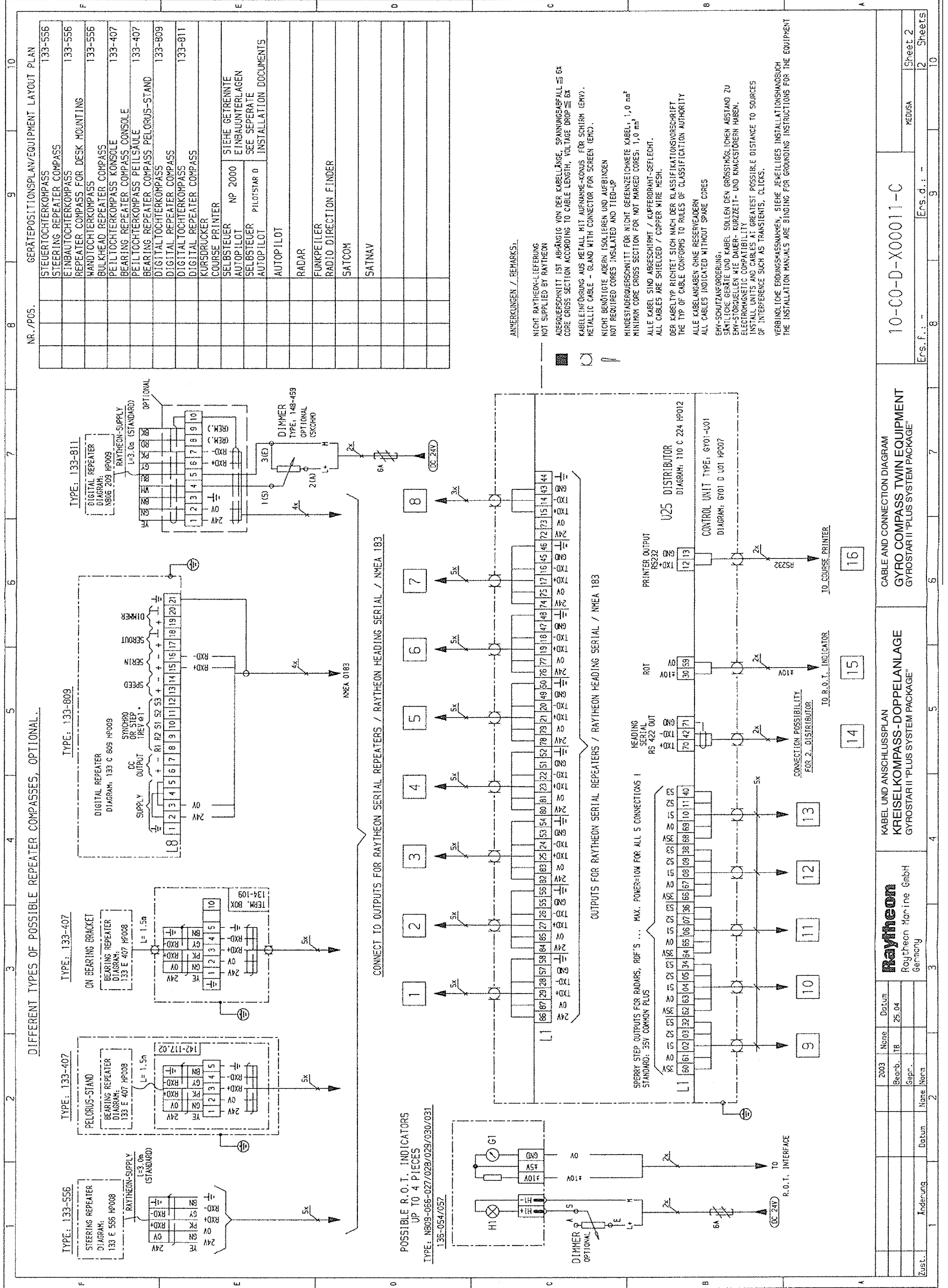
**Raytheon**  
 Raytheon Marine GmbH  
 Germany

KABEL UND ANSCHLUSSPLAN  
 KREISELKOMPASS-DOPPELPAKLETT  
 GYROSTAR II PLUS SYSTEM PACKAGE

CABLE AND CONNECTION DIAGRAM  
 GYRO COMPASS TWIN EQUIPMENT  
 GYROSTAR II PLUS SYSTEM PACKAGE

10-C0-D-X0011-C  
 Ers.f.: -  
 Ers.d.: -  
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Sheet 1  
 2 Sheets  
 10



NR./POS.	GERÄTEPOSITIONSPLAN/EQUIPMENT LAYOUT PLAN
	STEUERTUCHERKOMPASS 133-556
	STEERING REPEATER COMPASS 133-556
	EINBAUTUCHERKOMPASS 133-556
	REPEATER COMPASS FOR DESK MOUNTING 133-556
	HANDTUCHERKOMPASS 133-407
	BULKHEAD REPEATER COMPASS 133-407
	PELLTUCHERKOMPASS KONSOLE 133-407
	BEARING REPEATER COMPASS CONSOLE 133-407
	PELLTUCHERKOMPASS PEILSÄULE 133-407
	BEARING REPEATER COMPASS PELORUS-STAND 133-809
	DIGITAL TUCHERKOMPASS 133-809
	DIGITAL REPEATER COMPASS 133-811
	DIGITAL TUCHERKOMPASS 133-811
	DIGITAL REPEATER COMPASS 133-811
	KURSDRÜCKER
	COURSE PRINTER
	SELBSTTEUER NP 2000
	AUTOPILLOT EINBAUUNTERLAGEN
	SELBSTTEUER PILOTSTAR D
	AUTOPILLOT SEE SEPARATE
	AUTOPILLOT INSTALLATION DOCUMENTS
	RADAR
	FUNKPEILER
	RADIO DIRECTION FINDER
	SATCOM
	SATNAV

**ANMERKUNGEN / REMARKS:**

NICHT RAYTHEON-LIEFERUNG  
NOT SUPPLIED BY RAYTHEON

ADDERSCHEITUNG IST ABHÄNGIG VON DER KABELLÄNGE, SPANNUNGSFALL 6A  
CORE CROSS SECTION ACCORDING TO CABLE LENGTH, VOLTAGE DROP 6A

KABELLEITUNG AUS METALL MIT AUFNAHME-KONUS FÜR SCHIRM (EHW).  
METALLIC CABLE - GRAND WITH CONECTOR FOR SHIELD (EHW).

NICHT BENÖTIGTE ADERN ISOLIEREN UND AUFBINDEN  
NOT REQUIRED CORES ISOLATED AND TIED-UP

MINDESTADDERSCHEITUNG FÜR NICHT GEKENNZEICHNETE KABEL: 1,0 mm<sup>2</sup>  
MINIMUM CORE CROSS SECTION FOR NOT MARKED CORES: 1,0 mm<sup>2</sup>

ALLE KABEL SIND ABGESCHIRMT / KOPFERDRHIT-GEFLECHT.  
ALL CABLES ARE SHIELDED / COPPER WIRE MESH.

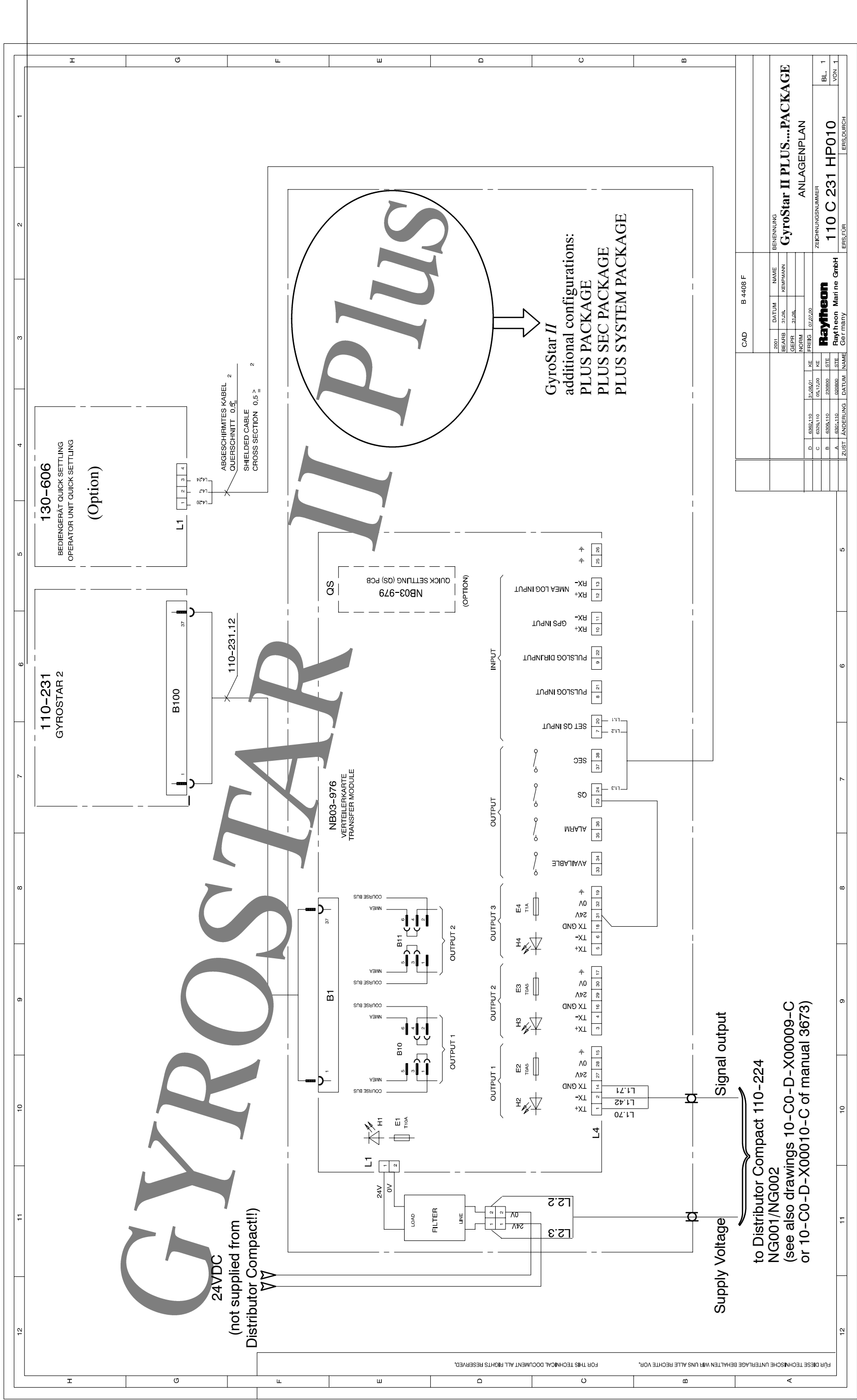
DER KABELTYP RICHTIG SICH NACH DER KLASSIFIKATIONSVORSCHRIFT  
THE TYPE OF CABLE CONFORMS TO RULES OF CLASSIFICATION AUTHORITY

ALLE KABELN MÜSSEN OHNE RESERVEADERN  
ALL CABLES INDICATED WITHOUT SPARE CORES

EHW-SCHUTZANFORDERUNG:  
EHW-SÄHLICHE GERÄTE UND KABEL SOLLEN DEN GRÖßTMÖGLICHEN ABSTAND ZU  
EHW-STÖRQUELLEN WIE DAUER- KURZZEIT- UND KNACKSTÖREN HABEN.  
ELECTROMAGNETIC COMPATIBILITY  
INSTALL UNITS AND CABLES AT GREATEST POSSIBLE DISTANCE TO SOURCES  
OF INTERFERENCE SUCH AS TRANSISTERS, CLICKS.

VERBODLICHE ERDGUNGSMAßNAHMEN, STEHE JEWEILIGES INSTALLATIONSHANDBUCH  
THE INSTALLATION MANUALS ARE BINDING FOR GROUNDING INSTRUCTIONS FOR THE EQUIPMENT

Zust.		Änderung		Datum		Name		Raytheon		KREISELANSCHLUSSPLAN GYROSTAR II "PLUS SYSTEM PACKAGE"		KABEL UND ANSCHLUSSPLAN GYROSTAR II "PLUS SYSTEM PACKAGE"		CABLE AND CONNECTION DIAGRAM GYROSTAR II "PLUS SYSTEM PACKAGE"		10-C0-D-X00011-C		Ers.f.: -		Ers.d.: -		MEDUSA		Sheet 2		2		10	
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CAD B 4408 F			
BEZEICHNUNG	GyroStar II PLUS...PACKAGE		
ANLAGENPLAN	ANLAGENPLAN		
ZEICHENUNGSNUMMER	110 C 231 HP010		
ERS.FÜR	ERS.DURCH		
BL...	BL... 1		
VON...	VON... 1		

DATEI	DATUM	NAME	ZUSTAND
BEARBEIT.	30.06.98	KEPPHANN	
GEPRÜFT	30.06.98		
INSTRUMENT	10/02/00		
D	6895.110	30.06.01	KE
C	6895.110	04.10.00	KE
B	6895.110	20.09.00	STE
A	6895.110	08.09.00	STE
ZUSTAND	ÄNDERUNG	DATUM	NAME

COMPANY	<b>Raytheon</b>
DESIGNER	Mani ne GmbH
DATE	07/02/00