



Technical Manual

for Searchlight B/BH or D/DH
with input 24V DC or 115/230V AC

- ☐ Input 24V DC
- ☐ Input 230V AC
- ☐ Input 115V AC

- ☐ SH 260
- ☐ SH 310
- ☐ SH 370
- ☐ SH 470

- ☐ B / BH / BS
- ☐ D / DH

- ☐ 250W
- ☐ 500W
- ☐ 650W
- ☐ 1000W
- ☐ 2000W

This manual belongs to the product
Serie no.: _____
Controlled by: _____
Date: _____

Introduction

For more than half a century, **Norselight** have designed and manufactured lighting products for marine vessels. Through on- going customer focussed product development, **Norselight** continue to deliver quality products as demanded both at sea and on the rugged coastlines as the Norwegian.

This commitment to quality and expertise provides the foundation for **Norselight** to be possibly the world's leading supplier of maritime lighting.

However, in order to stay in front, **Norselight** would very much appreciate all comments that you may have regarding our quality products or services.

Customer Service

The Customer Service department of GLAMOX Production GmbH & Co. KG will be pleased to help you when ordering spare parts, for maintenance and repair work as well as in case of problems and questions.

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We would also like to use this opportunity to thank you for choosing **Norselight**.

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Norselight AS operates a policy of continuous development. On this basis we reserve the right to make changes and improvements to all of our products and documentation.

1. General description

The Searchlight SH 260-470 consisting of:

1. **The searchlight** is made from seawater resistant aluminium, welded and finished with white silicon topcoat. The lamp housing basically contains a Lamp and a focus arrangement and a glass-reflector covered with silver.
2. **Guarantee:**
The guarantee is only valid against production faults. It do not cover damage caused by transportation, damage due to disregard of this technical Manual or adverse external effects.

2. Installation and Operation

2.1. Mechanical installation

The searchlight must be mounted on a horizontal surface.

2.2. Electric installation

Power supplied to the lamp unit can be 24V DC / 230/115V AC according to drawing E-bd-04.

2.3. Maintenance

Performed at intervals not exceeding 6 months:

- Control of all gaskets and cable glands.
- Control of all screw and nut connections.
- Reflector and front glass to be cleaned with a soft cloth and alcohol.

Note: Do not touch the bulb with bare hands or anything greasy. **The bulb must be clean.**

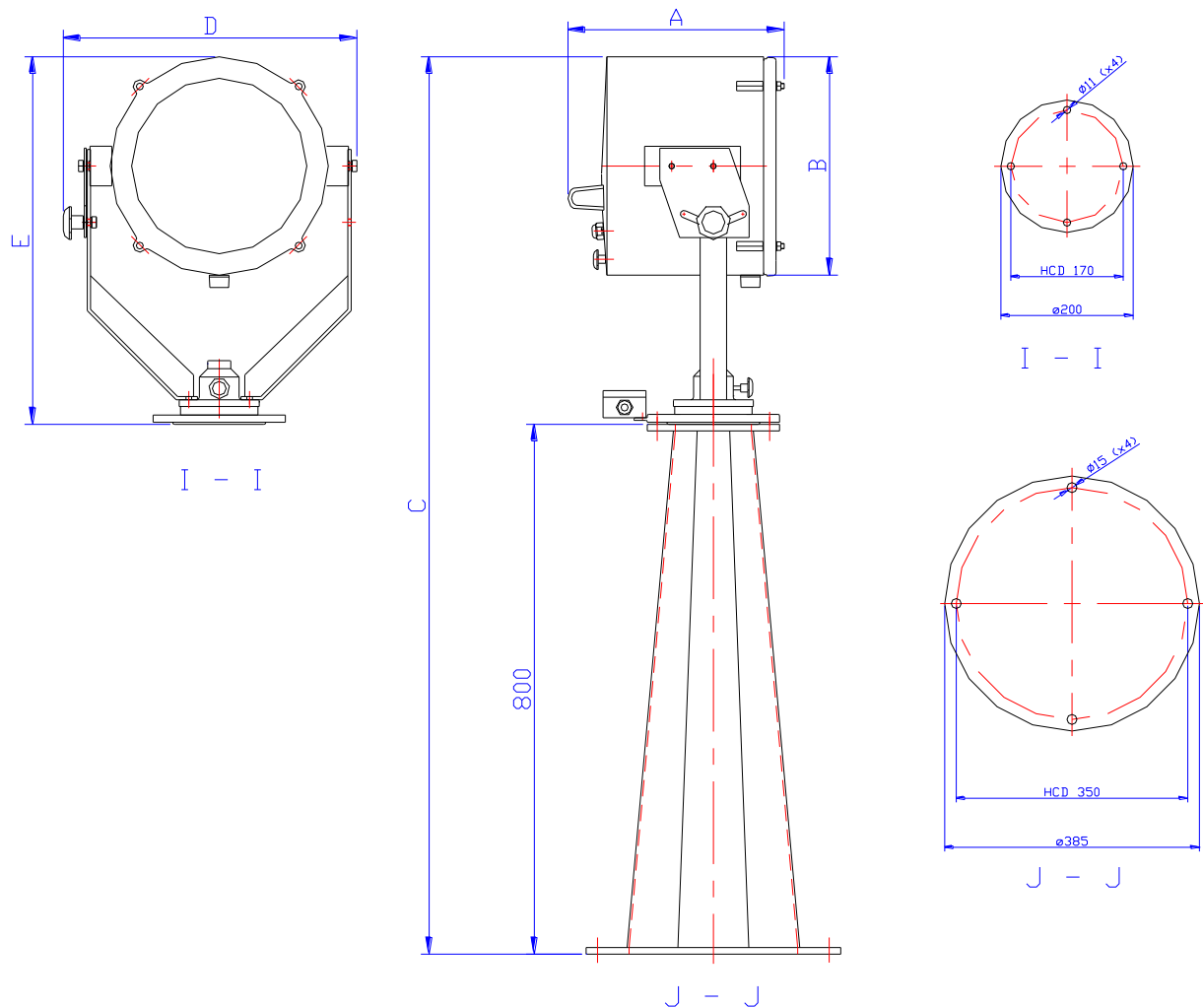
3.1 Technical description

Searchlight	SH 260	SH 310			SH 370			SH 470		
Lamp power (W)		650	1000		650	1000		650	1000	2000
Lamp voltage (V)	230/115V AC									
Lamp current (A)		2.8/ 5.7	4.3 / 8.7		2.8 / 5.7	4.3 / 8.7		2.8/5.7	4.3/8.7	8.7 / 17.4
Lifetime (h)		750/100	750		750 / 100	750		750/100	750	400
Luminous flux (lm)		16 800	27 500		16 800	27 500		16 800	27 500	52 000
Range at 1 lux (m)		1490	1540		1386	1571		1802	2043	2366
Divergence		10°	11 °		7.4 °	8.3 °		7 °	7.9 °	10.8 °
Lamp power (W)	250	250	500	1000	250	500	1000	250	500	1000
Lamp voltage (V)	24V DC									
Lamp current (A)	10.4	10.4	20.8	41.6	10.4	20.8	41.6	10.4	20.8	41.6
Lifetime (h)	2000	2000	150	150	2000	150	150	2000	150	150
Luminous flux (lm)	6400	6400	12000	26000	6400	12000	26000	6400	12000	26000
Range at 1 lux (m)	2454	2507	2063	1962	2574	2119	2205	2574	2119	2205
Divergence	7.6 °	4.5 °	5.8 °	7.0 °	3.3 °	4.3 °	5.7	3.2 °	4.1 °	5.4 °
Focal distance (mm)	50.8	88.9			120.6			127		
Drum material	Seawater resistant aluminium									
Reflector	Parabolic Silverplated									
Surface treatment	Corrocoat polyester									
Protection class	IP 56									
Screw joint material	Stainless steel A4									

3.2 Spare Parts for Searchlight. (Look at Pos nr. and draw nr. D-BD-18)

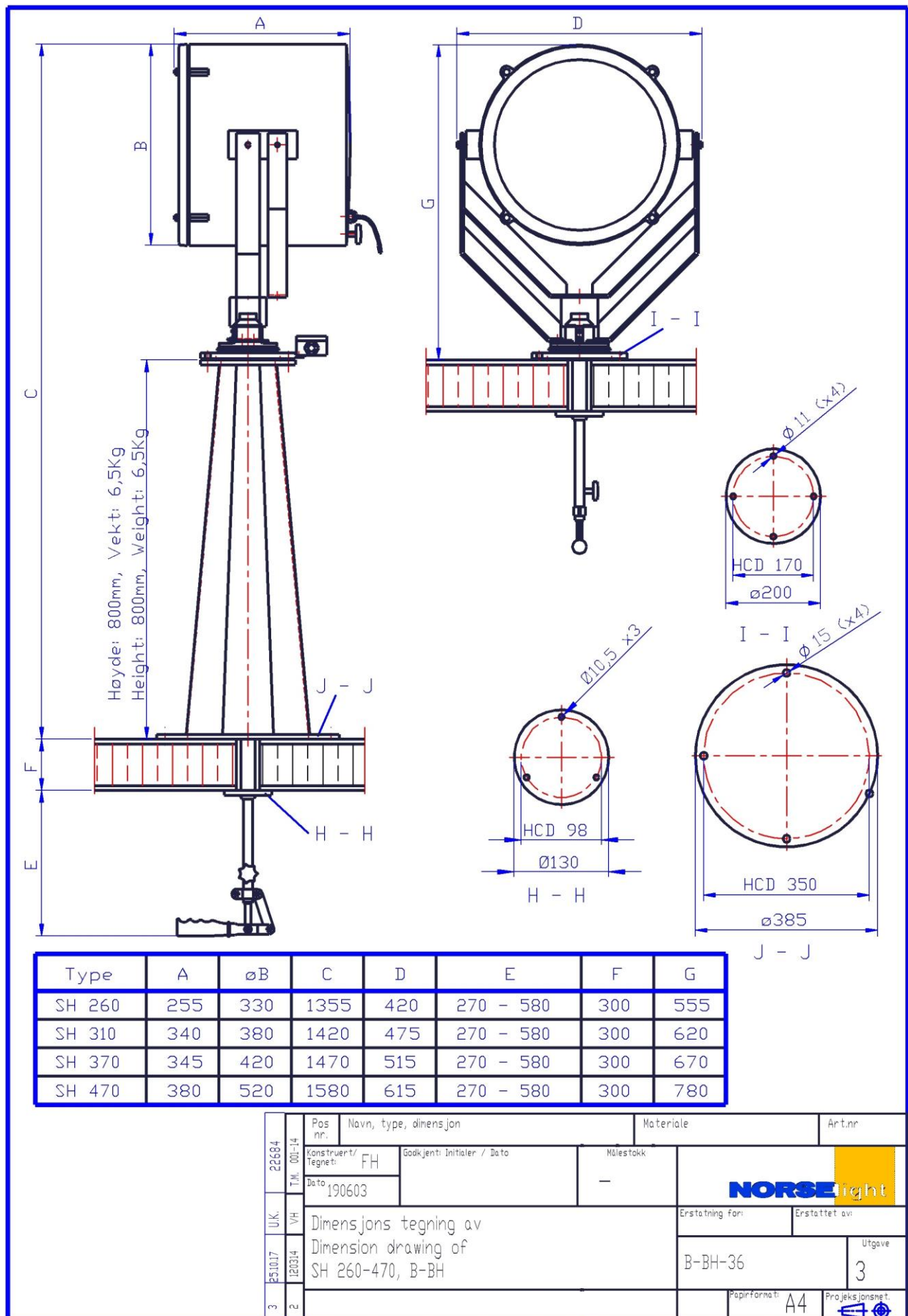
Type	Volt	Power	Lamp holder (Pos 6)	Lamp (Pos 5)	Reflector (Pos12)	Front glass (Pos 3)	Front ring (Pos 8)	Drum (Pos 1)
SH 260	24V DC	250	3024502	1701040	3020002	3028702	4021267	on request
SH 310	230/115V AC	650	3024503	1701003/1701006	3020003	3028703	4021266	on request
	230/115V AC	1000	3024503	1701002/1701005				
	24V DC	250	3024502	1701040				
	24V DC	500	3024504	1701008				
SH 370	24V DC	1000	4021092	1701007	3020004	3028704	4021263	on request
	230/115V AC	650	3024503	1701003/1701006				
	230/115V AC	1000	3024503	1701002/1701005				
	24V DC	250	3024502	1701040				
SH 470	24V DC	500	3024504	1701008	3020005	3028705	4021265	on request
	24V DC	1000	4021103	1701007				
	230/115V AC	650	3024503	1701003/1701006				
	230/115V AC	1000	3024503	1701002/1701005				
	230/115V AC	2000	3024505	1701001/1701004				
	24V DC	250	3024502	1701040				
	24V DC	500	3024504	1701008				
	24V DC	1000	4021112	1701007				

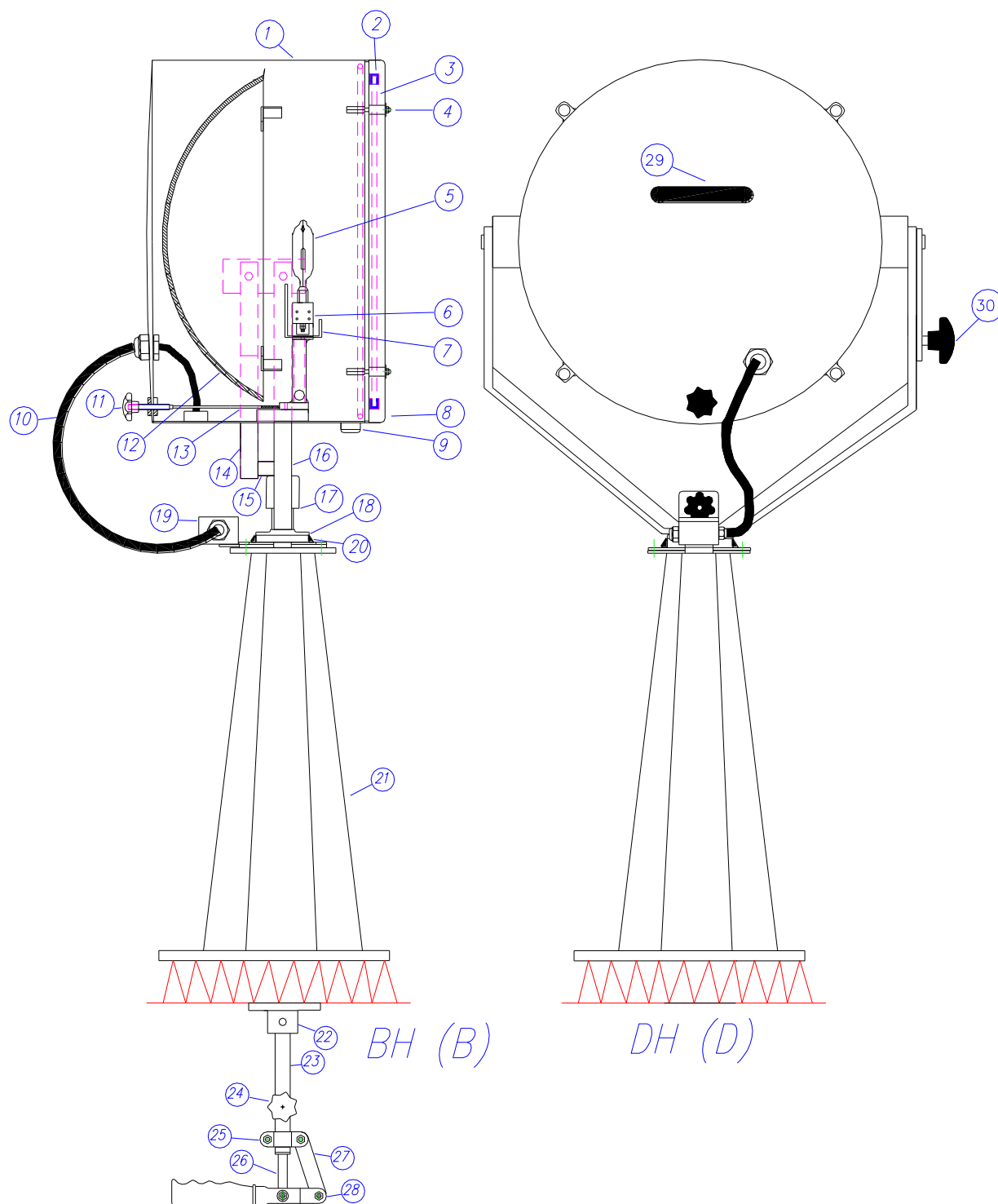
Pos no.	Spare parts	Article no.	Drawing
2	Glass gasket	3029756	D-BD-18
4	Clamping bolt	on request	
7	Lamp holder bracket SH 260	on request	
	Lamp holder bracket SH 310	1009184 (230V) SP / 1009291 (115V) C	
	Lamp holder bracket SH 370	1009111 (230V) CF / 1009185 (115V) SP 1009279 (115V) CF / 1009287 (115V) C	
	Lamp holder bracket SH 470 1000W	1009181	
	Lamp holder bracket SH 470 2000W	1009147 (230V) SP / 1009286 (115V) C	
9	Pressure Equalisation Element GHG 960 PG16	1009229	
10	Cable 3x1,5mm	1009632	
	Cable 3x2,5mm	on request	
	Cable 2x4,0mm	on request	
	Cable 2x10mm	1009461	
11	Focus wheel	1009668	
13	Complete focus screw SH 260	4021257	
	Complete focus screw SH 310		
	Complete focus screw SH 370	4021258	
	Complete focus screw SH 470		
14	Adjustment bracket SH 260	1009379	
	Adjustment bracket SH 310	on request	
	Adjustment bracket SH 370	1009424	
	Adjustment bracket SH 470	1009381	
15	Spacer SH-XS B-BH	1009616	
16	Fork to SH 260	on request	
	Fork to SH 310	on request	
	Fork to SH 370	on request	
	Fork to SH 470	on request	
17	Seal Kit Deck Flange SH/XS	1009617	
18	Deck Flange SH/XS D/DH C Kit	1009419	
19	Connection box	on request	
20	Stripper VS 120	on request	
21	Pedestal	on request	
22	Flange	on request	
23	External pipe	on request	
24	Wheel	on request	
25	Handle grip	on request	
26	Control axle (150cm)	100900400	
27	Connection link	2008173	
28	Lever	on request	
29	Handle	1009676	
30	Locking wheel	on request	



Type	A	øB	C	D	E
SH 260	330	330	1355	445	555
SH 310	390	380	1420	590	620
SH 370	435	420	1470	540	670
SH 470	410	520	1580	640	780

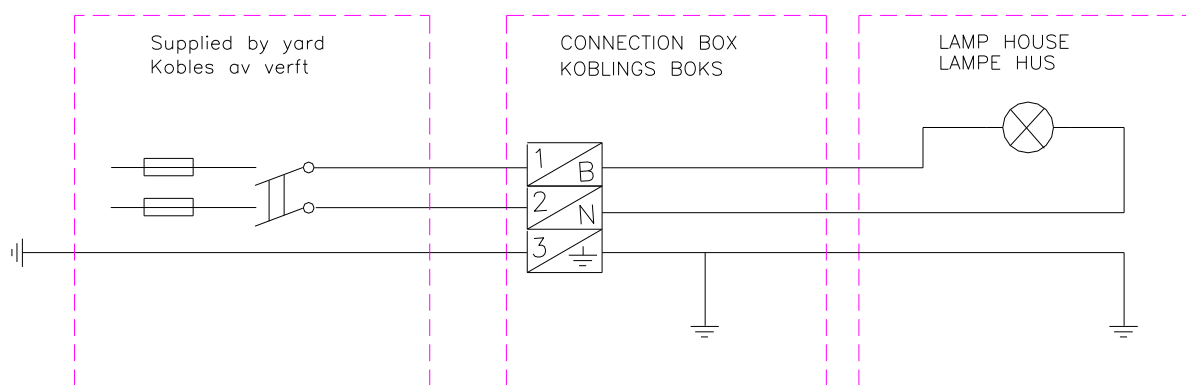
T.M. 042-03	T.M. 112-02	T.M. 068-02	Pos. nr.	Navn, type, dimensjon	Materiale	Art.nr	
			Konstruert/ Tegnet: <i>AJL</i>	Godkjent: Initialer / Dato	Målestokk		
			Dato: <i>07.07.00</i>		—		
FH	AJL	AJL	<i>Dimensjons tegning av</i> <i>Dimension drawing of</i> <i>SH 260-470, D-DH</i>			Erstatning for: <i>D-BD-17-2</i>	Erstattet av:
190603	281102	050402				<i>D-DH-17</i>	
3	B	A				Papirformat: <i>A4</i>	Projeksjonsmet. 





068-02						
	Pos nr.	Navn, type, dimensjon			Materiale	Art.nr.
T.M.	Dato	Konstr./Tegnet		Målestokk		
	07.07.00	AJL				
05.04.02	Kontroll	Stand.kontr.	Godkjent	Projeksjonsmet.		
			HS			
	Sammenstillings tegn. av Assembly drawing of SH 260-470 B-BH/D-DH				Erstatning for:	Erstattet av:
					D-BD-18	
A	Henvisning:		Beregning:		Katalog: alle/manualer	

Spønning/Voltage			Forbruk Consumption (A)	Kabel Cabel
24V DC	115V AC	230V AC		
250W			10,4	Godkjent marinekabel Approved cross section
500W			20,8	
1000W			41,6	
	650W		5,7	
	1000W		8,7	
	2000W		17,4	
		650W	2,8	
		1000W	4,3	
		2000W	8,7	



T.M. 092-02	Pos nr.	Navn, type, dimensjon	Materiale	Art.nr	
	Konstruert/ Tegnet: <i>AJL</i>	Godkjent: Initialer / Dato	Målestokk		
	Dato <i>07.05.99</i>				
AJL	<i>Koblingstegning for Wiring Diagram for SH 260-470 D/B</i>			Erstatning for:	Erstattet av:
250602				<i>E-B-D-04</i>	
2				Papirformat: <i>A4</i>	Projeksjonsmet. 