

Triggering pressure PSI kPa Bar LMPRD 04 4 PSI ± 1 0.28 bar 28 kPa 0.35 bar LMPRD 05 5 PSI ± 1 35 kPa LMPRD 06 6 PSI ± 1 0.41 bar 41 kPa LMPRD 08 8 PSI ± 1 0.55 bar 55 kPa LMPRD 10 10 PSI ± 1 0.69 bar 69 kPa LMPRD 12 12 PSI ± 1 0.83 bar 83 kPa LMPRD 15 15 PSI ± 2 1.03 bar 103 kPa LMPRD 20 20 PSI ± 2 1.38 bar 138 kPa LMPRD 25 25 PSI ± 2 1.72 bar 172 kPa LMPRD 30 30 PSI ± 2 2.07 bar 207 kPa 4 Spring assembly; LMPRD = Large MESSKO® Pressure Relief Device Electrical connection No micro-switch Vertical plate without hole for standard cover; screw-type blank cap for OD cover Connection via cable screw con-3 1 micro-switch 1 x M20 x 1.5 cable screw connection; nections 1 x M20 x 1.5 dummy plug 2 x M20 x 1.5 cable screw connection 3 2 micro-switches 3 1 or 2 micro-switches ANSI plug with or without ground connection Westinghouse plug 3 1 micro-switch 3 2 micro-switches without ground connection 9 Connection box 3 1 micro-switch 1 x M25 x 1.5 2 x M25 x 1,5 3 2 micro-switches Further connections possible by request (e.g. NPT) Remark Sealing material Coolant 5 NBR sealing lip (standard Mineral oil 1 Signal pin = red (anodized) equipment) 5 Viton sealing lip Silicone oil, pyranol 1 Signal pin = blue (anodized) 7 Mounting seal ring NBR Mineral oil Order No.: 50032703 (optional) Viton Silicone oil, pyranol Order No.: 73314900 Without mounting seal ring Degree of protection IP 65 IP 66, available for Standard protective cover with cable screw connection OD cover with cable screw connection OD cover with connection box

Product variants

2 Standard protective cover

Optional:

Protective cover with powder coating

8 Protective cover with directed oil flow (OD cover)

This technical document contains detailed information about the technical properties of the product. If you would like to place an order, please use the MESSKO inquiry and order specification, which you can also find on our website http://www.reinhausen.com below the respective product.

6 Vent screw

shore applications)

O Semaphore (not for off-

Offshore model (only for OD cover)

RAL 7033 (cement gray)

RAL 7033 (cement gray) RAL 7038 (agate gray)

1 - OPERATION position

2 - ALARM position

RAL 7038 (agate gray)

1

Technical data

Operating conditions	MESSKO® MPreC®		
Ambient temperature	-40 °C+80 °C		
Oil	-30 °C+120 °C		
Storage temperature	-40 °C+80 °C		
Degree of protection	IP 65 in accordance with nach IEC 60 529		
	Optional IP66 in accordance with IEC 60 529 for – Standard protective cover with cable screw connection – Cover with directed oil flow with screwed cable screw connection – Cover with directed oil flow with connection box		
General	MESSKO® MPreC®		
Materials			
Flange	Seawater-proof aluminum casting		
Standard protective cover	Seawater-proof aluminum with powder coating RAL 7033 or RAL 7038		
Protective cover for directed oil flow	Seawater-proof aluminum casting with powder coating RAL 7033 or RAL 7038; sealing lip (NBR) included in the scope of delivery		
Valve plate	Stainless steel		
Mounting seal ring (optional)	NBR or Viton		
Sealing lip	NBR or Viton, depending on the coolant		
Springs	Spring steel in accordance with EN 10270-1 SH, synthetically coated (cathodic corrosion protec- tion)		
Signal pin	Seawater-proof aluminum; red (anodized) for standard sealing lip (NBR); blue (anodized) for Viton		
Semaphore	Corrosion-resistant steel with powder coating RAL 1026, luminous yellow (not suitable for offshore applications)		
Vent screw	Self-securing; stainless steel; SW 10		
	Optionally available without vent screw		
Dimensione			
Dimensions	α 225 mm [α 0.25"] halt single of the 6 halos α 15.5 mm (α 0.61")		
Fastening Protective cover	Ø 235 mm [Ø 9.25"] bolt circle of the 6 holes Ø 15.5 mm (Ø 0.61") Ø 291 mm [Ø 11.46"] standard protective cover		
Protective cover	Ø 295 mm [Ø 11.61"] cover with directed oil flow		
Height (in triggered state)	Max. 234.5 mm [9.23"] standard protective cover without semaphore Max. 340 mm [13.39"] standard protective cover with semaphore		
	Max. 246 mm [9.96"] cover with directed oil flow without semaphore Max. 342 mm [13.46"] cover with directed oil flow with semaphore		
Mounting seal ring	Optionally available, Ø 200 mm x Ø 178.5 mm x 4.25 mm [Ø 7.87" x Ø 7.03" x 0.17"], NBR or Viton		
Connection cable length for plug variant	1219 mm [48"]; 1829 mm [72"]; 2134 mm [84"]; 2438 mm [96"]; 3658 mm [144"]; 4572 mm [180"]; 5004 mm [197"]; 5080 mm [200"]; 6096 mm [240"]; 7620 mm [300"]; 9144 mm [360"]; 10,000 mm [394"]; 11,990 mm [472"]; 15,010 mm [591"]; 20,110 mm [792"]		
Micro-switch	MESSKO® MPreC®		
Contacts	1 x NO (normally open), 1 x NC (normally closed) for each micro-switch		
	Special design: Micro-switch 2 x NO (normally open contact)		
Housing material	Seawater-proof aluminum		
Rated operating voltage	U _e = 240 V		
Contact bridge (standard equip- ment)	Utilization category AC-15; 240 V / 3 A in accordance with EC 60947-5-1 Conventional thermal current: $I_{th e} = 10 \text{ A}$		
Contact bridge with gold-plated contacts	Utilization category AC-15; 240 V / 3 AI in accordance with EC 60947-5-1 Conventional thermal current: I_{the} = 10 A		
Contact bridge with 2 x normally open contacts	Utilization category AC-15; 240 V / 1.5 A in accordance with EC 60947-5-1 Conventional thermal current: I_{the} = 5 A		
opon contacto			



Connection data

Connection via cable screw connection (gland)

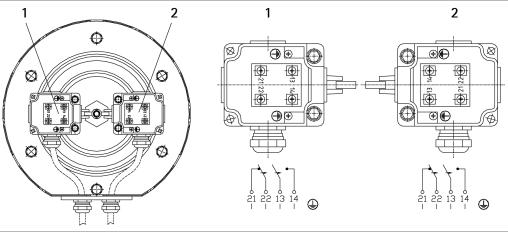


Figure 1: Standard protective cover

- 1 Micro-switch 1, see page 1/3
- 2 Micro-switch 2, see page 1/3

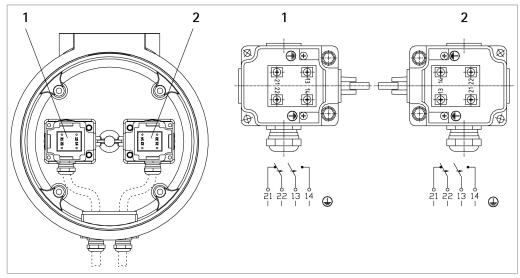


Figure 2: Protective cover with directed oil flow

MESSKO® MPreC®	Connection data	l i i i i i i i i i i i i i i i i i i i
Cable screw connection	1 micro-switch:	Cover/vertical plate: 1 x M20x1.5 (SW 24) for cable Ø 815 mm 1 x dummy plug M20x1.5
		Switch housing: 1 x M20x1.5
	2 micro-switches:	Cover/vertical plate: 2 x M20x1.5 (SW 24) for cable Ø 815 mm
		Switch housing: 2 x M20x1.5
Degree of protection	IP 65 in accordance with IEC 60 529 (with mounted protective cover) IP 66 in accordance with IEC 60 529 (optionally with mounted protective cover)	
Connection terminals	Single-wire: 0.52.5 mm ² , AWG 20-10 or Litz wire with ferrule: 0.51.5 mm ² , AWG 20-15	

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Connection via connection box

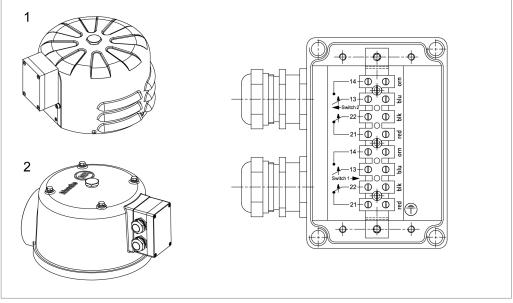


Figure 6: Connection box

1 Standard cover

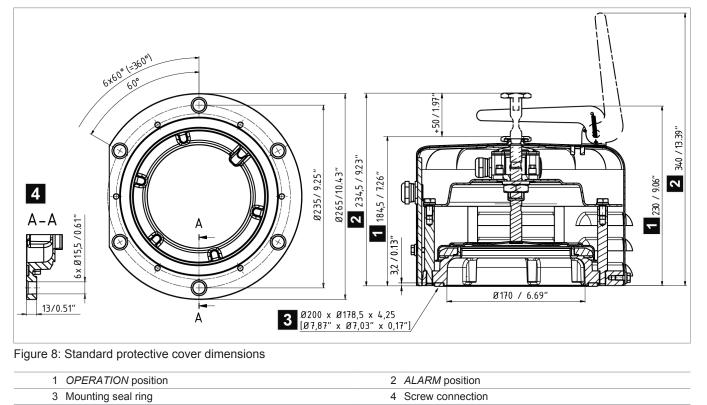
2 Protective cover with directed oil flow

MESSKO® MPreC®	Connection data	l l
Cable screw connection	1 micro-switch:	Connection box: 1 x M25x1.5 for cable diameter 815 mm (wrench size 24); 1 x dummy plug M25x1.5
		Switch housing: 1 x M20x1.5
	2 micro-switches:	Connection box: 2 x M25x1.5 for cable diameter of 815 mm (wrench size 24)
		Switch housing: 2 x M20x1.5
Degree of protection	IP65 in accordanc	e with IEC 60 529
	Only optional for OD cover: IP66 in accordance with IEC 60 529	
Connection terminals	Single-wire: 0.52.5 mm ² , AWG 20-10 or Litz wire with ferrule: 0.51.5 mm ² , AWG 20-15	

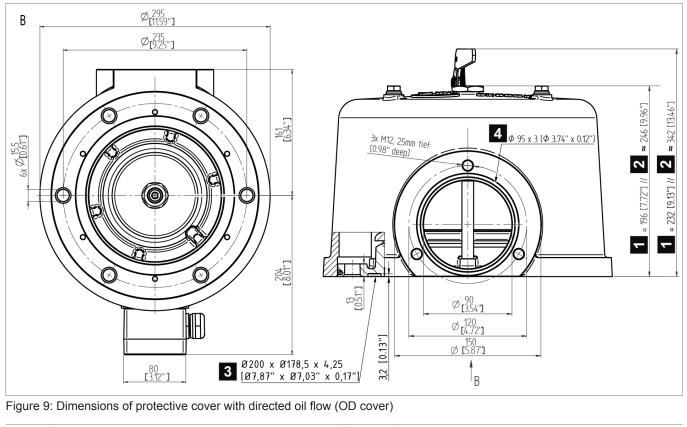


Dimensions

Protective cover







1 OPERATION position	2 ALARM position
3 Mounting seal ring	4 Groove for O-ring (NBR)



Flange on protective cover with directed oil flow (OD cover)

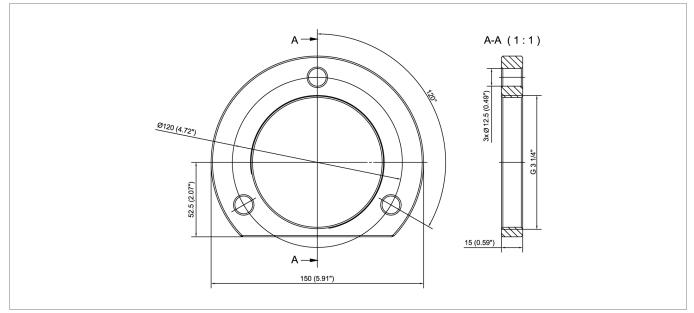


Figure 10: Flange with internal thread (optional)

MESSKO® MPreC®	Flange with internal thread
Material	1.4301 stainless steel
Order No.	73647900

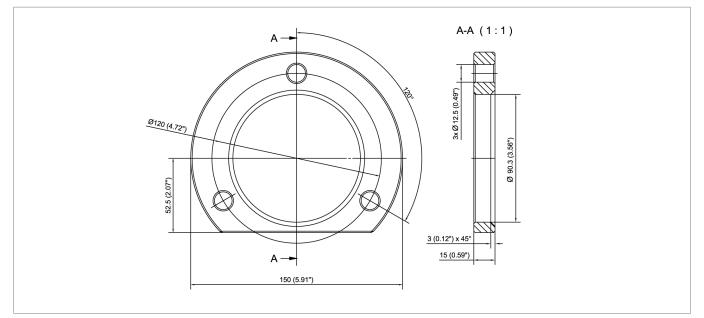


Figure 11: Welding flange (optional)

MESSKO® MPreC®	Welding flange
Material	1.4301 stainless steel
Order No.	74045000