

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Position Transmitter

with type designation(s)
Inductive Analog Sensor IA8 & RB6

Issued to

Pepperl+Fuchs GmbH
Mannheim, Germany

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Temperature B*
Humidity B
Vibration B
EMC A
Enclosure IP67

*** See Application/Limitation**

This Certificate is valid until **2022-04-06**.

Issued at **Hamburg** on **2017-04-07**

DNV GL local station: **Magdeburg**

for **DNV GL**

Approval Engineer: **Heinz Scheffler**

Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Product description

Inductive Analog Sensor

RB6-16M-I-Y208548

Nominal ratings

- Operating voltage: UB 16 ... 31.2 V
- Output signal: 4.143 ... 19.857 mA
- Temperature drift: $\pm 0.02\%/K$ max. value
- No-load supply current: $I_0 < 45$ mA
- Load resistor: 0 ... 500 Ohm

Mechanical specifications

- Connection type: 8 m Zerohal cable CL105-2x2x0.75 - PO
- Housing material: Stainless steel
- Sensing face: PEEK

Inductive analog sensor

IA8-22M64-I-Y209161 (64mm Version)

IA8-22M120-I-Y235922 (120mm Version)

IA8-22M90-I-Y255646 (90mm Version / Actuating element SNCrW)

IA8-22M120-I-Y241579 (120mm Version / Actuating element SNCrW)

Nominal ratings

- Operating voltage: UB 16 ... 31.2 V
- Output signal: 4 ... 16.25 mA
- Temperature drift: $\pm 0.1\%/K$ max. value
- No-load supply current: $I_0 < 30$ mA
- Load resistor: 0 ... 500 Ohm

Mechanical specifications

- Connection type: 5 m Zerohal cable CL105-2x2x0.75 - PO (64mm Version)
8 m Zerohal cable CL105-2x2x0.75 - PO (90/120mm Version)
- Housing material: stainless steel
- Sensing face: PEEK

Application/Limitation

Temperature location class B: Devices were tested up to 85°C.

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Type Approval documentation

Test Reports: U160807E2; U160807E1; E160807E1;

Datasheets: 255646 dated 2016-12-12; 241579 dated 2016-12-12; 235922 dated 2016-12-12; 209161 dated 2016-12-12; 208548 dated 2016-12-15

Job Id:
Certificate No: **TAA00000U3**

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016

Marking of product

The products to be marked with:

- Device identification mark
- Serial number

Device type Variants	Device identification mark
IA8-22M64-I-Y209161	1881664-6
IA8-22M120-I-Y235922	5242831-3
IA8-22M120-I-Y241579	5273000-4
IA8-22M90-I-Y255646	5345510-9
RB6-16M-I-Y208548	1881777-3

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE