

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Pilot Device**

with type designation(s)

Push Buttons and Switches, Type: Quartron/ Quartron-Juwel

Issued to

Georg Schlegel GmbH & Co. KG
Dürmentingen, Germany

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****For flush-mounting in front of switchboards and enclosures onboard ships and offshore units.
Indoor application only.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed
by DNV GL.**Issued at **Hamburg** on **2018-12-27**This Certificate is valid until **2023-12-31**.for **DNV GL**DNV GL local station: **Augsburg**Approval Engineer: **Harald Amberger**

Arne Schaarmann
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

Quartron / Quartron – Juwel; Push Buttons and switches for flush-mounting in front of switchboard.

Quartron	Quartron-Juwel
QXT	QXJT
QXP	
LXT	LXJT
	LXJTT
QXK	QXJK
QXS	QXJS
QXV	QXJV
QXW...	QXJW...
QXST...	QXJST...
QXSS...	QXJSS...
QXSSK	QXJSSK

Quartron	Quartron-Juwel
QXSCH	QXJSCH
QXVSCH	QXJVSCH
QXR	QXJR
QXTLL	QXJTLL
XFS32	
XFV32	
XUV	
	QXJFS
	QXJFV
XFV	

Type designation contact blocks:

AT	ATL	ATI	QXTI*	AZO11	AZ2
AT2	ATL2	ATO	QXTO*	AZ111	AZ2N
AF	AFL	ATO1	QXDI*	AZOO	AZOSOI
AF2	AFL2		QXDO*	AZVN	AZSOSO
CT...			QXJTI*	AZZ	AZ(L)4I
CZ...			QXJTO*	AZ011_97	AZ(L)4O

* Pushbutton incl. contact.

Type Approval documentation

Tests carried out

IEC 60058-1, IEC 60529, IEC/EN 60947-5-1, IEC / EN 61058, insulation voltage test , endurance tests, cold test (IEC / EN 60068-2-1), heat test (IEC / EN 60068-2-2), vibration test (IEC / EN 60068-2-6).

Marking of product

Schlegel - Type designation - Ratings (if applicable)
(On the body or packaging unit of the device)

Job Id: **262.1-010561-5**
Certificate No: **TAE00003B3**

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and 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