



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

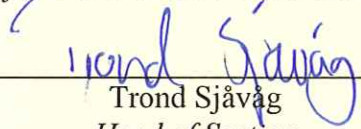
CERTIFICATE NO. E-8629
This Certificate consists of 3 pages

This is to certify that the
Interface Plug
with type designation(s)
FBP FieldBus Plug

Manufactured by
ABB Stotz-Kontakt GmbH
HEIDELBERG, Germany

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det
Norske Veritas' Offshore Standards
IEC 60947-1 (2007-06)
IEC 60947-4-1 (2002-12)

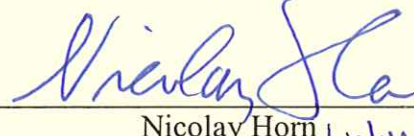
Place and date
Høvik, 2009-01-09
for DET NORSKE VERITAS AS


Trond Sjøvåg
Head of Section



Local Office
DNV Essen

This Certificate is valid until
2012-12-31


Nicolay Horn
Surveyor

Notice: 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.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision 'Det Norske Veritas' shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: E-8629
File No.: 828.30

Product description

FBP FieldBus Plug: AS – Interface FieldBus Plug

- 1) AS - Interface FieldBus Plug Direct ASD11-FBP. Ready made AS – Interface slave fieldbus interface with various cable lengths. Applicable with MSD11-FBP and terminal devices with max. 2 inputs 1 output signals. IP65. Diagnostic LED.
- 2) AS - Interface FieldBus Plug Performance ASP22. Ready made AS -i slave fieldbus interface with various cable lengths. Applicable with FBP motor starter and terminal devices with max. 4 inputs 3 output signals. IP65. Diagnostic LED.
- 3) Profibus DP/V0 FieldBus Plug PDP21-FBP fieldbus interface with various cable lengths. Applicable with all FBP motor starter and othrt terminal devices IP65. Diagnostic LED.
- 4) Profibus DP/V1 FieldBus Plug PDP22-FBP fieldbus interface with various cable lengths. Applicable with all FBP motor starter and othrt terminal devices IP65. Diagnostic LED.
- 5) DeviceNet FieldBus Plug DNP21-FBP fieldbus interface with various cable lengths. Applicable with all FBP motor starter and othrt terminal devices IP65. Diagnostic LED.
- 6) CANopen FieldBus Plug COP21-FBP fieldbus interface with various cable lengths. Applicable with all FBP motor starter and othrt terminal devices IP65. Diagnostic LED.
- 7) MODBUS-RTU FieldBus Plug MRP21-FBP fieldbus interface with various cable lengths. Applicable with all FBP motor starter and othrt terminal devices IP65. Diagnostic LED.

Application/Limitation

The FBP FieldBus Plug system is regarded as components. Product certificate required as part of the switchboard certification. Drawings / documents for the actual application may be required in accordance with the Rules for approval in each case.

The cable is not a part of the type approval and must be reviewed case by case.



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Type Approval documentation

Technical info:

Technical Catalogue FieldBuss Plug Components (parts).

Test reports:

ABB Declaration of Conformity no. 1SAD938501-0061, issued 2003-01-17. Paconsult

Testreport No. 0705-05 Rev. 1 issued 2005-03-10. EMV Rhein-Neckar GmbH Test report

No. 3893-356, issued 2005-08-02.

Tests carried out

Type tests according to IEC 60947-1, IEC 60947-4-1 and environmental tests (vibration, humidity, dry heat, low temperature).

Marking of product

ABB Stotz - type designation - rated current - rated voltage - setting range

Certificate retention survey

The scope of the retention/renewal survey 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 survey are:

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

Survey to be performed at least every second year.

END OF CERTIFICATE