

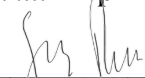


TYPE APPROVAL CERTIFICATE
No. ELE345219XG

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Speed Sensor
<i>Type</i>	FA54 series
<i>Applicant</i>	NORIS AUTOMATION GMBH MUGGENHOFER STRASSE 95 90429 Nuernberg GERMANY
<i>Manufacturer</i>	NORIS AUTOMATION GMBH
<i>Place of manufacture</i>	MUGGENHOFER STRASSE 95 90429 Nuernberg GERMANY
<i>Reference standards</i>	Rules for the classification of ships.- Part C - Machinery, systems and fire protection. - Ch.3, Sect. 6, Table 1.

Issued in **HAMBURG** on **April 15, 2020**. This Certificate is valid until **April 14, 2025**



RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

TYPE APPROVAL CERTIFICATE

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FA54 series

Product description:

The FA54 is a non-contacting speed sensor series. The different sensor variants allow measurements with up to two measuring channels and up to four output signals. They are suitable for standstill detection and rotational direction detection by using phase shifted signals.

Ratings:

Power Supply: 9 ... 32 V DC

Measuring Range: 0 ... 20 kHz

Degree of Protection: IP66/68

Documents:

Dimension Drawings: 42.254.311.001.1; 42.254.411.001.1; 42.254.511.001.1; 42.254.511.002.1;
42.854.231.001.1; 42.854.231.002.1;

Data Sheet: DB-FA54-EN,V01.00;

Test Report: Bureau Veritas, EMC, KE1246-TBE1,FA54-Rev-A,@ECL-EMC-TR-19-122-V02.00;

HAMBURG April 15, 2020

