

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	R. Stahl HMI Systems GmbH
Address	Adolf-Grimme-Allee 8, Köln, 50829, Germany
Type	Monitoring - Cctv / Camera Equipment
Description	Camera and Tank with pump, for Video Surveillance and Docking.
Trade Name	Camera EC-910, EC-940S, EC-940-PTZ, EC-94* (with * other than 0), EC-840S-TIC, IC-930-AFZ, Mast und Eckhalterung EC-910, MPT-Head x40S; Tank 10-PV-A.
Application	Marine and Offshore use in environmental categories ENV1, ENV2, ENV3, ENV5, as detailed in Lloyd's Register Type Approval System Test Specification Number 1, March 2019.
Specified Standard	Manufacturer's Specification. IEC 60945:2002.
Ratings	See Appendix
Other Conditions	The present certificate is intended as amendment of Certificate 18/ 00065.

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This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR2017937DA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

Type

Camera & Housing	EC-910 family EC-940S family EC-940-PTZ family EC-94* (with * other than 0) family EC-840S-TIC family IC-930-AFZ family
Optional	Mast und Eckhalterung EC-910 MPT-Head x40S
Tank with Pump	Tank 10-PV-A

Ratings

EC-910 family	Vision	Day/Night
	Power supply	24 Vac/dc, PoE
	Protection Index	IP 66, IP x8, IP x9
	Explosion Proof	
EC-940S family	Vision	Day/Night
	Power supply	24 Vac / 12-24 Vdc
	Protection Index	IP 66, IP x8, IP x9
	Explosion Proof	
EC-940-PTZ family	Vision	Day/Night
	Power supply	230 Vac / 120 Vac / 24 Vac
	Protection Index	IP 66
	Explosion Proof	
EC-94* (with * other than 0) family	Vision	Day/Night
	Power supply	230 Vac / 120 Vac / 24 Vac
	Protection Index	IP 66, IP 68, IP 69
	Explosion Proof	
EC-840S-TIC family	Vision	Day/Night and Thermal
	Power supply	24 Vac / 12-24 Vdc
	Protection Index	IP 66, IP x8, IP x9
	Explosion Proof	
IC-930-AFZ family	Vision	Day/Night
	Power supply	24 Vac/dc, PoE+
	Protection Index	IP 66, IP 68, IP 69
Mast und Eckhalterung EC-910	Bracket for cameras	
MPT-Head x40S	Bracket for cameras	

Tank 10-PV-A	Power supply	24 Vac/dc
	Protection Index	IP 66
	Explosion Proof	

Other details as per manufacturer's data sheets

