

ENGINE ORDER TELEGRAPH

EOT

sm electrics' Engine Order Telegraph (EOT) formerly designed and distributed by Stein Sohn respectively Interschalt represent the embodiment of safe and sustained μ P controlled human machine interface as a basic part of the connected remote propulsion system.

Type approved by major classification societies the equipment is available for various control application. The highly integrated system is administrating a single interface to the potential propulsion system by high-precision shock resistant potentiometer, contact-free optical current transmitter or other defined physical interface unit. The well established μ P controlled "Electrical Shaft" allows a secure Bridge FWD EOT's remote control by corresponding lever controller located typically on the Bridge Wings and/or Bridge AFT.



APPLICATION

system diagnosis via LCD
type approved by all major classes
serial VDR interface

The main purpose of sm electrics' Engine Order Telegraph system is to generate the desired RPM or pitch value for the connected propulsion remote control system by a sustained and reliable lever – known as well as human machine interface (HMI).

In case the connected propulsion remote control system is disturbed the engine order telegraph system is in use to transfer manoeuvre commands to the engine control room or, if required, directly to the engine room's ME local station. The given manoeuvre command activates an audible alarm as long as the command has been accepted by corresponding operation at the connected participants.

The modular system structure allows to extend the system by wing control units. All telegraphs located on the bridge e.g. bridge FWD, bridge AFT, wing SB, wing PS are connected to each other by a virtual mechanical shaft to make them work synchronously. That virtual shaft is called Electrical Shaft and operates as a remote control of the main bridge FWD telegraph which is providing the main interface to the connected propulsion remote control system.

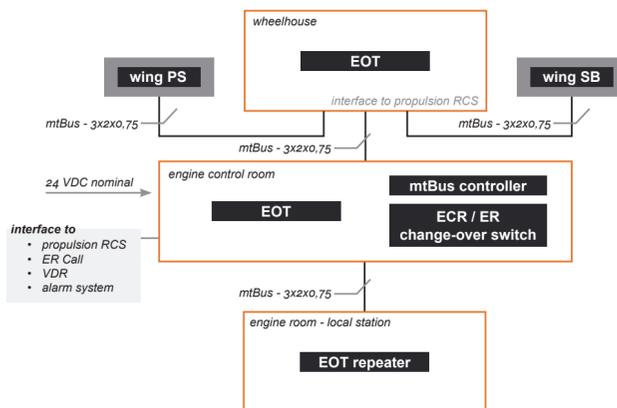
The centralized A067 mt-Bus controller, mostly located inside the engine control room console, controls and monitors all network participants and provides further interface signals for ER call, VDR and connected IAMC systems.



DATA & FEATURES

- A067 mtBUS RS485 control
- two handle types and two unit sizes available
- double EOT for twin main engine control available
- various interface technologies to propulsion RCS
- all environmental tests min. acc. IEC 60945
- full operation EOT repeater for ME local station
- type approved by: DNV-GL, RMRS

TYPICAL SYSTEM COMPOSITION



PERIPHERY EQUIPMENT

SMALL CONTROL LEVER

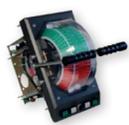
2080099588



- EOT | A067.1252-000-0111
- dimension: h190 x w130 x d200mm
 - IP56 (front)
 - electrical shaft operation

DOUBLE CONTROL LEVER FOR WING CONSOLE

2080100150



- EOT | A067.3252-000-0211
- dimension: h190 x w130 x d200mm
 - IP56 (front)
 - 2x electrical shaft

EOT BRIDGE LEVER

2080100641

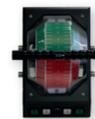


- EOT | A067.2313-431-0111
- dimension: h324 x w192 x d200mm
 - IP56 (front)
 - electrical shaft operation

PERIPHERY EQUIPMENT

DOUBLE EOT BRIDGE LEVER

2080100356



- EOT | A067.4343-431-0211
- dimension: h324 x w192 x d200mm
 - IP56 (front)
 - 2x electrical shaft operation

mtBUS CONTROLLER

2000103003



- EOT | A067.74
- with VDR interface
 - 24 VDC nominal

CHANGE OVER SWITCH

2030403002



- EOT | A067.T0-8221e
- ECR/ER command change over
 - 48 x 48mm
 - double pole double throw (DPDT)

EOT/EEOT RECEIVER ER with wall box

2080100453



- EOT | A067.5032-100-0140
- dimension: h300 x w316 x d135
 - IP56 (front)
 - incl. call bell

EOT RECEIVER ER with wall box

2000104996



- EOT | A067.5034-100-0120
- dimension: h262 x w222 x d146mm
 - IP56 (front)
 - ø180mm scale

contact for project specific requests

Due to the scalable system with various numbers of expansion stages, operational features and interfaces to the potential main engine remote control system, a specific request is required. Kindly provide as much details as possible during your requiring email, making us able to provide a qualified offer in due time.

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