



# COMMANDER UTILITY TEF 2650 GATEWAY FOR COMMANDER SEARCHLIGHTS SAFE AREA

Subject to change without prior notice TPS3958 REV. B 11.12.2017



The Commander Searchlights operate on a RS-485 network, allowing up to 8 searchlights and 15 control panels. In addition, one Gateway allow for external control and monitoring.

The options of the Gateway and a remote computer for control, is limited to the following:

- 'Turn right' and 'Turn left': The searchlight will turn continually until it reaches the respective end position.
- Absolute positioning: Send a command containing vertical and/or horizontal position. The searchlight will then move to that particular position.
- Turn lights on and off (including ignition)
- Adjust focus of light beam.

The Gateway allows control of each individual searchlight (maximum 8), but minimum one control panel must be present in the network arrangement. In addition to transferring commands from a remote computer, the Gateway will continuously transmit absolute positioning of each connected searchlight, including the status of the light (on/off). This allows for very simple monitoring and display on a remote computer system.

The system accuracy is 0.1 degree, but when including the mechanical considerations the repeated accuracy is within 1 degree.

The data transfer as ASCII characters, and based upon a proprietary NMEA-0183 protocol.

## TECHNICAL DATA

<b>Operating temperature:</b>	+5 to +70 deg. C
<b>Enclosure protection:</b>	IP 20
<b>Dimensions (WxDxH):</b>	120x120x80mm
<b>Weight:</b>	0.35 kg
<b>Supply voltage:</b>	18-32 VDC.
<b>Communication:</b>	RS-485. Cable impedance 100-250ohm. End resistors shall not be used.
<b>VDR/SCADA interface:</b>	Galvanic isolated RS-422. Baud rate 19.200 8N1
<b>Protocols:</b>	Proprietary NMEA-0183

## FEATURES

- DIN rail mounting.
- Build-in snubber network which allows termination of a wide range of communication cable, 100-250ohm characteristic impedance. End resistors shall not be used.

## APPROVALS AND STANDARDS

Tested according to IEC60945:2002

CE-marking



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# TEF 2650 COMMANDER SEARCHLIGHT GATEWAY

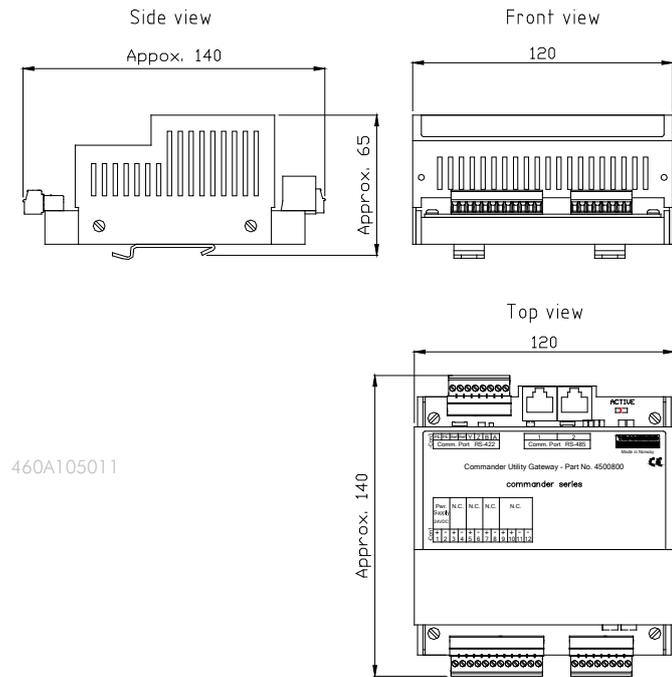
## DESCRIPTION

Gateway for Commander Searchlight

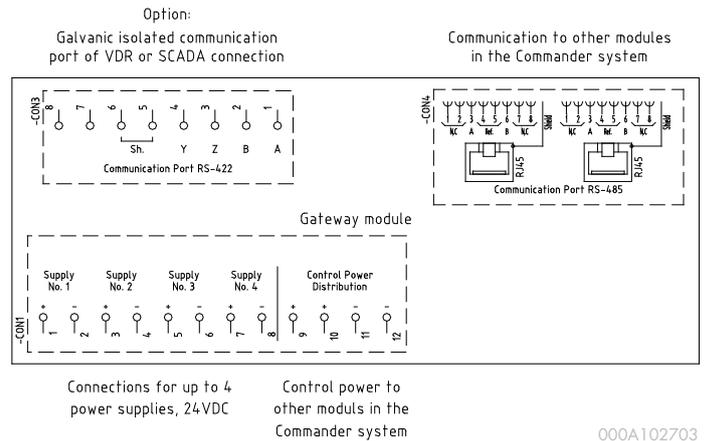
Part No.

2618100018

## DIMENSIONS



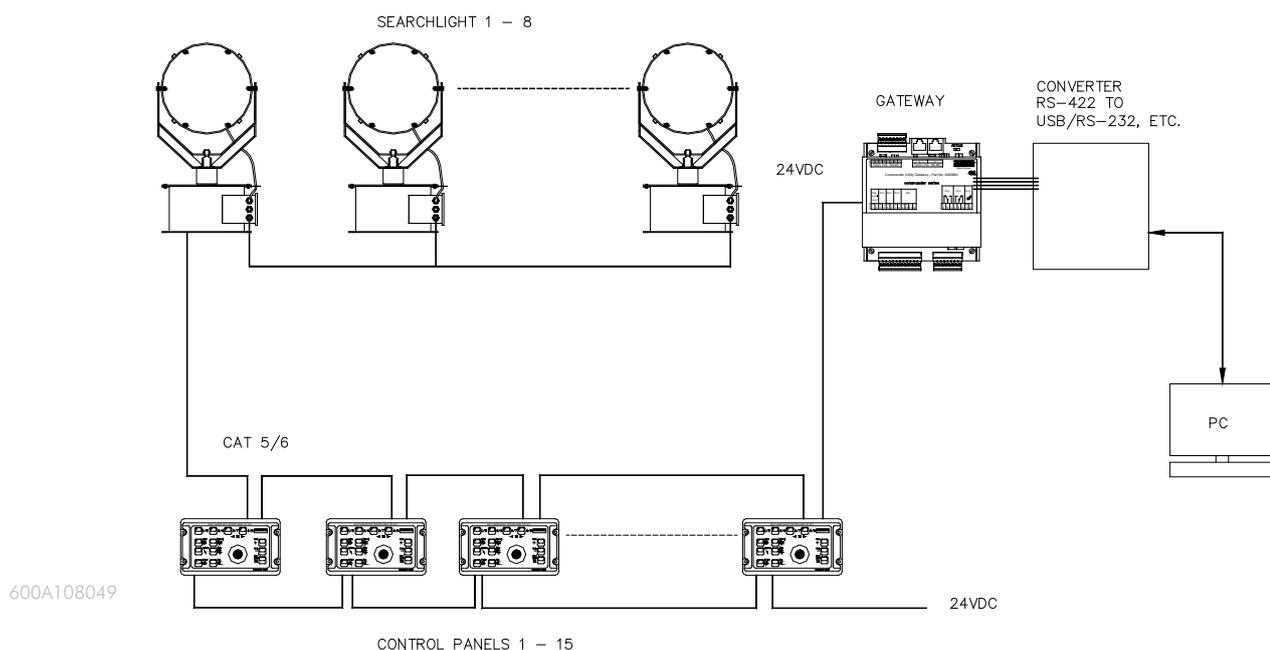
## ELECTRICAL SCHEMATICS



A + B : Data from external control system

Y + Z : Data to external control system

## TYPICAL TOPOLOGY



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