



Translation

- (1) **EC-Type Examination Certificate**
- (2) **-Directive 94/9/EC-**
Equipment and protective systems intended for use
in potentially explosive atmospheres
- (3) **DMT 98 ATEX E 039 X**
- (4) **Equipment:** Luminaire Type ESL25-Ex or Type ESL25-Ex/1
- (5) **Manufacturer:** F.H. Papenmeier GmbH & Co. KG
- (6) **Address:** D 58211 Schwerte
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the schedule to this type examination certificate.
- (8) The certification body of DMT-Gesellschaft für Forschung und Prüfung mbH, notified body no. 0158 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.
The examination and test results are recorded in confidential test and assessment report BVS PP 98.2049 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:

EN 50014:1992 (VDE 0170/0171 part 1/3.94) General Directives
EN 50018:1994 (VDE 0170/0171 part 5/3.95) Flameproof enclosure "d"
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-Type Examination Certificate relates only to the design and construction of the specified equipment. Further requirements of Directive 94/9/EG apply to the manufacture and placing on the market of this equipment.
- (12) The marking of the equipment shall include the following:
 II 2G EEx d IIC T4/T5/T6

DMT-Gesellschaft für Forschung und Prüfung mbH
Essen, dated 08. December 1998

Signed: Dr. Jockers

Signed: Dr. Dill

Head of certification body

Head of special services unit

(13)

Appendix to

(14)

EC-Type Examination Certificate

DMT 98 ATEX E 039 X

(15) 15.1 Definition of type for Luminaire Type ESL25-Ex or ESL25-Ex/1

Type ESL25-Ex:

Version fitted with resin cast & permanently connected cable entry approved for this application.

Type ESL25-Ex/1:

Version fitted with cable entry approved for this application.

15.2 Description

The main casing of luminaire type ESL25-Ex is built to ignition protection rating Flameproof "d".
The luminaire is fitted with Halogen lamps for nominal voltages from 12 V to 230 V.
Certain luminaire versions are fitted with integral transformers.

15.3 Electrical, Mechanical and Thermal Parameters:

15.3.1 Nominal Voltage of the luminaire	AC/DC	12 V
	or	AC/DC 24 V
	or	AC 120 V
	or	AC 230 V

15.3.2 Temperature class allocation

Fitted Halogen Lamp			max. ambient temperature	min. ambient temperature	Temp. class	Higher temperature rating of cable entry and cable or conductor required
type		socket				
12 V	5 W	G4	+60° C	-20° C	T5	Yes
120 V/12 V	5 W	G4	+60° C	-20° C	T5	Yes
230 V/12 V	5 W	G4	+60° C	-20° C	T5	Yes
12 V	10 W	G4	+60° C	-20° C	T4	Yes
120 V/12 V	10 W	G4	+60° C	-20° C	T4	Yes
230 V/12 V	10 W	G4	+60° C	-20° C	T4	Yes
12 V	5 W	G4	+40° C	-20° C	T6	No
120 V/12 V	5 W	G4	+40° C	-20° C	T6	No
230 V/12 V	5 W	G4	+40° C	-20° C	T6	No
12 V	10 W	G4	+40° C	-20° C	T5	No
120 V/12 V	10 W	G4	+40° C	-20° C	T5	No
230 V/12 V	10 W	G4	+40° C	-20° C	T5	No
12 V	20 W	GU4	+40° C	-20° C	T4	Yes
12 V	20 W	G4	+40° C	-20° C	T4	Yes
24 V	20 W	G4	+40° C	-20° C	T4	Yes

(16) Test report

No. BVS PP 98.2049 EG, 22 pages

(17) Special conditions for safe use

Connection of cable from luminaire type ESL25-Ex must be to an enclosure of a suitable standard in line with EN 50014, 1.2. For those higher operating temperature versions listed under 15.3.2 an approved cable gland and cable or conductor i.e. one rated at least 110° C must be used.