ELECTRONIC SYSTEMS

TZP-ED....M

chapter: 5.9.3

➡Application

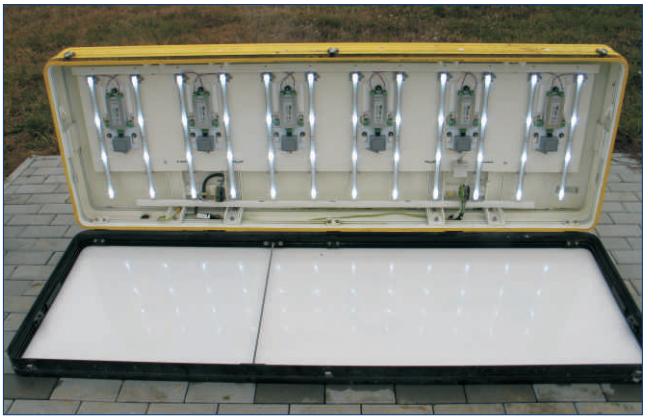
- TZP-ED set is designed to be used for modernization of old bulb TZP-E sign with halogen lamps
- Each TZP-E sign can be up-graded to LED diode-TZP-ED, regardless its dimensions and year of manufacture
- sign modernization is so simple that it can be performed directly at the field, without dismantling the sign
- it is strongly recommended to carry out sign modernization under supervision of experienced TRANSCON expert

➡Certificates

- ICAO ANNEX 14 Volume I
- FAA AC 150/5345-44F

➡Description/Properties

- constant illumination of entire sign space due to dense LED network
- constant luminance intensity in range 2,8-6,6 A
- electronics is distributed into several independent segments (the number corresponds to the length), failure of one segment has no influence to other segments
- modular design allows quick and easy tool-free repair, modules replacement can be performed just with one hand
- low price and interchangeability of modules saves cost and simplifies maintenance
- delivery contains complete electronics, cable with connector and mounting feet; delivery does not include isolation transformer
- all modules are identical to sign TZP-D



➡Construction

- supporting structure consists of mounting sheets adapted to easy sign attachment
- mounting sheets carry all sign electronics including main switch

➡Operating conditions

- protection IP 54
- working temperature from -55 to +55 °C
- resistance against squalls and turbulences up to the speed of 322 km/h

TÜV CERT

chapter:

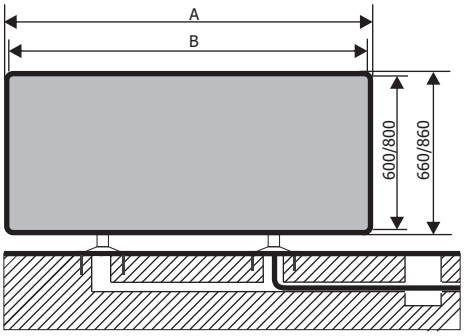
5.9.3 TZP-ED....M

➡Electrical parameters

- supply from 2,8 to 6,6 A current loop (compatible with 8.3 A systems) or 230 V network
- LED diode segments are isolated from the power supply transformer
- independent overvoltage protection is integrated in each segment
- sign is equipped with a main switch

➡Installation of interior fittings

- before installing a set inside of sign, it is recommended to withdraw halogen lamps, bulb sockets and wires can remain
- common tools are enough for installation of supporting sheets
- newly installed electronics is powered by means of a single transformer of relevant output, remaining unused transformers should be dismantled
- in case sign is not grounded, it is necessary to carry out additional grounding



➡Ordering codes

TZP-ED-X-X-X-X

Type
Y informative sign (directional)
R mandatory sign
L sign for identification of place
B sign for indic. of remaining length of RWY
H sign of center of RWY

Sign height for modernization
3 - height of panel/fonts-600/300
4 - height of panel/fonts-800/400

Sign length for modernization
A - 715/860 mm (height of panel 600/800 mm)
B - 1325 mm
C - 1940 mm
D - 2550 mm
E - 2850 mm
K - 3150 mm
F - 3780 mm
G - 4085 mm

Supply
C - serial circuit 2,8-6,6 A
V - AC 230 V
M - modification

Informative signs (height of panel/fonts 600/300 mm) - table of basic parameters

Type	A=lenght of sign for modernization [mm]	Number of segments (max. power)	Number of transf. and their output [W]	Ordering codes 2,8-6,6 A	Ordering codes 230 V
A	715	2 (27 VA)	1×65	915-180	915-180V
B	1325	4 (54 VA)	1×150	915-181	915-181V
C	1940	6 (81 VA)	1×200	915-182	915-182V
D	2550	8 (108 VA)	1×200	915-183	915-183V
E	2850	9 (121 VA)	1×200	915-184	915-184V
K	3150	10 (135 VA)	1×300	915-185	915-185V
F	3780	12 (162 VA)	1×300	915-186	915-186V
G	4085	13 (175 VA)	1×300	915-187	915-187V

Informative and mandatory signs (height of panel/fonts 800/400 mm) - table of basic parameters

Type	A=lenght of sign for modernization [mm]	Number of segments (max. power)	Number of transf. and their output [W]	Ordering codes 2,8-6,6 A	Ordering codes 230 V
A	860	3 (45 VA)	1×100	915-188	915-188V
B	1325	4 (60 VA)	1×150	915-189	915-189V
C	1940	6 (90 VA)	1×200	915-190	915-190V
D	2550	8 (120 VA)	1×200	915-191	915-191V
E	2850	9 (135 VA)	1×300	915-192	915-192V
K	3150	10 (150 VA)	1×300	915-193	915-193V
F	3780	12 (180 VA)	1×300	915-194	915-194V
G	4085	13 (195 VA)	1×300	915-195	915-195V