

VARIABLE TRAFFIC SIGNS WITH LIGHTING LED ELEMENTS FULL MATRIX VTS LED - M

VTS LED - M



Basic Information

Variable traffic signs with highly shining LED elements are active traffic signs that use luminous dots distributed in the front area for creating a traffic sign symbol or other traffic information. They are used in frequented land communications of various classes and in tunnels, where there is the need to regulate flexibly the traffic smoothness with respect to the current situation. This traffic sign advantage consists in its good visibility and possibility of instant changing the symbols and the long interval for LED maintenance. The traffic sign design complies with CSN EN 12966-1 and ČSN EN 12899-1 standards.

The combination of imaged symbols of traffic signs is defined by the traffic solution in the given location. The most frequent are combinations of symbols of warning and banning signs and light signals. Thanks matrix, which consists of the white and red elements, it is possible to display any traffic sign using these two colours. The sign can be displayed in an inverse design (symbol inside the sign lights with white LED's) or opposite (see the picture).

Technical Description

The cabinet is welded from the either special aluminium profiles or steel of class 17348. The rear side includes a maintenance door for the access to the internal part of the cabinet. The cabinet is coated with the transparent colour (in case of stainless type) or gray powder colour (in case of aluminium). The cabinets meet IP56 protection. The front plate is constructed as a full matrix with so-called double-coloured clusters, enabling to display any symbol consisting of the red and white colour.

The optical system consists of the prismatic lenses (radiating in various levels under various angles) and simultaneously preventing reflex of the incident sun light. Material of lenses is borosilicate glass. For using in the different light conditions the sign is equipped with digital control of luminance (acc. to EN 12699-1).

The sign involves a processor unit CPU performing control of the optical elements and communicates with the superior system. The communication protocol enables fully-controlled data transferring for the sign inclusive reading of the complete diagnostic.

To ensure compatibility with other equipments (control system, modem etc.) any communication protocol can be implemented into the control unit. The displayed texts or symbols can be sent into the sign directly through the communication line RS 485 or can be displayed from in advance programmed memory and selected only by the symbol number (memory place).

Classification

Per CSN 12 966-1			Per CSN 12 899-1	
VTS/V	<i>Radiation Angle</i>	B 1	<i>Plate Edges</i>	E 3
	<i>Luminance</i>	L 3		
VTS/T	<i>Radiation Angle</i>	B 3	<i>Wind Load</i>	WL 2
	<i>Luminance</i>	L3(T)		
<i>Colour</i>		C 2	<i>Point Load</i>	PL 3
<i>Luminance Ratio</i>		R 2	<i>Dynamic Snow Load</i>	DSL 0
<i>Temperature:</i>		T 2	<i>Max Value of Flat Deformation</i>	
			- <i>Deflection</i>	TDB 4
<i>IP Code</i>		P 2	- <i>Torsion</i>	TDT 5
			<i>Anti-Corrosion Finish</i>	SP 1

Basic Technical Data

Type:	VTS-LE
Lighting elements:	LED
Communication	RS 485 or BIN 24VDC
Power Supply:	230 V / 50 Hz
Consumption :	20-125W (by size)
IP Code:	IP65
Operation temperature:	-25°C up to +55°C
Input:	20 to 125 W (model-dependent)
Basic dimensions (mm):	A = 350; 560; 760; 1,000; and 1,300 mm
Basic mass:	11 - 85 kg (model-dependent)
Material:	ČSN EN424005 or ČSN EN17348

Contact

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