Transparent oLED Smart Window Display

Description

The transparent oLED Smart Window TFT Display uses a matrix of organic light-emitting diodes and transparent thin film transistors (TFT) to offer a transparent display with high resolution and great contrast.

The transparency allows employing the display for passenger information and advertising in locations in which a normal display would obscure the necessary view. Examples for these locations are windows, doors, or glass panels for room separation in a car.

The display can be combined with active filter elements, which provide a non-transparent background when necessary and thus serves to maximise the readability and contrast of the display content. It also allows the separate display of information to the inside and outside of a vehicle by obscuring the view of one side of the display when needed.

Image

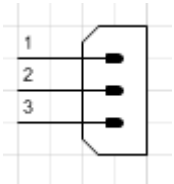
Technical Specification

Type of media	Transparent Active Matrix oLED TFT	
Matrix / colour	1920 x 1080 pixel / 1.07 Billion	
Viewing Angle	horizontal 80°/80°, vertical 80°/80°	
Transmittance	45%	
Main Frequency	90 MHz	
Power supply	24 VDC | 36 VDC | 110 VDC	as per EN50155
Power consumption	Max. 160 W	
Temperature	Operation	0° C to +50° C
	Storage	-20° C to +65° C
Vibration	EN 50155	
EMC/EMI	EN 50121-3-2	
Connections	ETH, power supply	
Surface Treatment	Anti-glare surface	
Dimensions (W x H x D)	1219.4 x 699.3 x 25 mm	
Display area (W x H)	approx. 1209.6 x 690.4 mm	
Weight	approx. 5 kg	

Application Example

Transparent oLED on mirror with touchscreen functionality

Connectors

Name	Description	Model Type	Pin Num	Pin Definition
ETH	X1	M12  4-polig	1	TXP
			2	RXP
			3	TXN
			4	RXN
Power	X3	? 	1	DC24V+
			2	n.c.
			3	DC24V-

Note:
Other interfaces are used by ANNAX staff for maintenance.