



DMC

capacitive touchscreens

YCS series



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Clear Type Capacitive Touch Screen

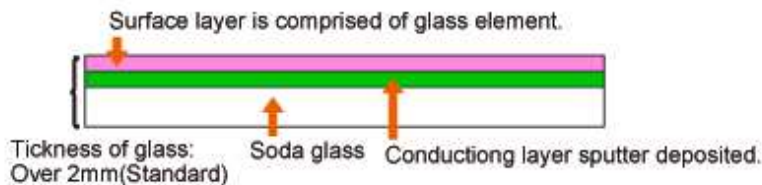
YCS Capacitive Touch Screen is a human-machine interactive interface comprised of a conductive-material-coated glass panel. Current is uniformed on the glass panel entirely. By touching a finger on the panel, current flows via the finger and the ratio of the current flow is computed in order to detect the touch location. Due to a simple and robust design, YCS Capacitive Touch Screen fully exerts its capability without losing its touch performance in any harsh environment.



Traits

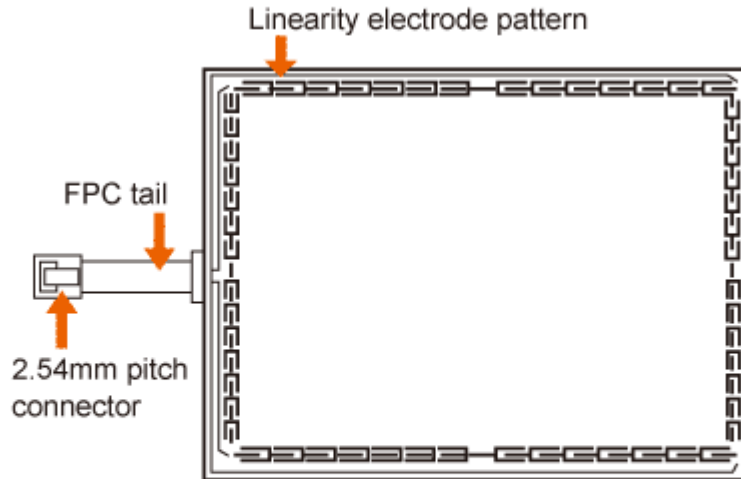
- Sensitive response and high resolution
- Able to show a display monitor without loss of clarity
- Easy installation onto a PC
- Not affected by dirt, grease, moist use
- Robust design allows to use outside
- Simple design fit for large-sized touch screens

Capacitive touch structure -1

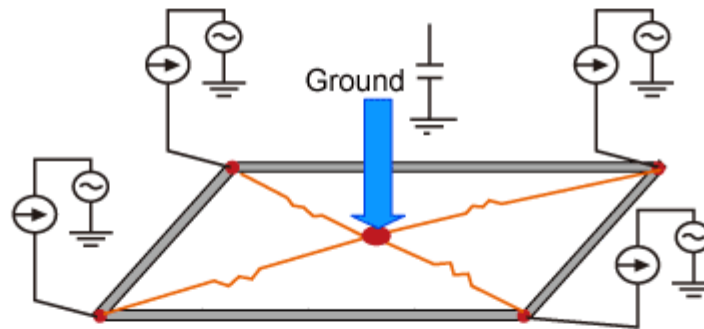




Capacitive touch structure -2



How Capacitive touch screens detect where you pressed



Touch location is detected by utilizing a variation of electrical field.

General Specifications

Operating Temp.	-20°C to 70°C*	Light Transmittance	89% (typical)
Operating Humidity	-20°C to 60°C Less than 90%RH* Exceeding 60°C to 133.8g/m ³ *	Surface Hardness	5H (Jis)
Storage Temp.	-40°C to 80°C*	Max. Voltage	DC6V
Storage Humidity	-40°C to 60°C Less than 95%RH* Exceeding 60°C to 142.9g/m ³ *	Max. Current	200mA
Activation Force	-	Terminal Resistance	-
Operating Life	50 million hit	Linearity	Less than +/- 2.0%

*No dew condensation.



Part No.	Diagonal Size	Tail Length & Position	External Dimension (E) Active Area Dimension (A)	Glass Thickness (Total)
YCS-057A110A	5.7"	FPC 110mm Left side	E: 133.9 x 103.4 mm A: 119.2 x 90.4 mm	1.8mm
YCS-070A110A	7.0" Wide	FPC 110mm Right side	E: 169.8 x 108.6 mm A: 154.3 x 94.7 mm	1.8mm
YCS-084A110A	8.4"	FPC 110mm Left side	E: 192.1 x 142.5 mm A: 178.4 x 130.5 mm	1.8mm
YCS-104A110A	10.4"	FPC 110mm Left side	E: 233.6 x 180.3 mm A: 217.9 x 167.9 mm	1.8mm
YCS-121A110A	12.1"	FPC 110mm Left side	E: 265.5 x 203.2 mm A: 250.0 x 191.0 mm	1.8mm
YCS-150A110A	15.0"	FPC 110mm Left side	E: 330.2 x 254.0 mm A: 317.0 x 241.8 mm	1.8mm
YCS-150B110A	15.0"	FPC 110mm Left side	E: 330.2 x 254.0 mm A: 317.0 x 241.8 mm	3.2mm
YCS-170A200A	17.0"	FPC 200mm Top side	E: 354.8 x 290.3 mm A: 342.7 x 276.5 mm	3.2mm
YCS-190A200A	19.0"	FPC 200mm Left side	E: 396.0 x 324.0 mm A: 382.2 x 311.8 mm	3.2mm



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