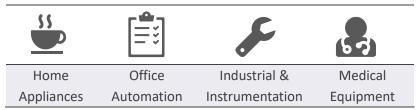


Product Overview

Dignity has nearly 25 years of experience in designing, manufacturing and supplying high quality membrane switches for the home appliance, industrial and medical markets. With our considerable experience in producing quality HMI products for a range of products, Dignity's product team can provide the right solution for your needs. Our membrane switch technology is the standard for most HMI projects, and while it does not have the same design flexibility as capacitive switches or touch panels, membrane switches are cost effective, reliable and an extremely mature technology.

Product Applications



Features

- Customizable to fit virtually any application
- Fully sealed surface, easy to clean, easily sterilized and water-resistant designs can meet NEMA and IP specifications
- Durable and robust, million plus actuations possible
- A cost-effective alternative less costly than rubber keypad assemblies and capacitive touch keypads
- Easily interfaces with existing controllers, no need for specialized electronics

Product Customization

Parameter	Options & Notes			
Size	As per customer requirements			
Structure / Construction	Flat / Embedded Switching / Raised Switching / Overlays			
Integration	Gaskets and industrial adhesive integration options available			
Overlay / Cover Options				
Cover Materials	PC, PVC, PET, Silicone, Polyester			
Decoration	Screen printing, transparent or tinted windows, graphic overlays			
Additional Options	UV hard-coat surface, various textures			
Interface				
Interface Options	Pin, FFC, FPC			
Pin Spacing	2.54 / 1.25/1.0mm			
Product Enhancements				
Tactile	Plastic & metal tactile domes and switches			
Sealability	Gaskets, sealing integration, water-resistant designs			
EMI Resistance	EMI shielding layer or filters incorporated			
Lighting	LEDs, Electroluminescent (EL), fiber optic lighting			
Other	Backplate integration, anti-bacterial materials, etc.			

Product Specifications - Touch

Item	Specifications	
General		
Туре	Membrane Switch	
Electrical Circuit	Silver, Carbon, other conductive inks or pastes	
Hardness	≥ 3H – 6H (Hard Coat)	
Durability		
Warranty	Standard Products: 1 year / Custom: As per application	
Actuation Cycles	≥ 1 Million	
Bending Durability	Bending radius of 1.0mm, 180° bending ≥ 50 times	
Electrical		
Operating Voltage	35V, 100mA, 1W	

Response Time	≤ 5 ms			
Mechanical				
Contact Travel	0.1 – 0.4mm / 0.4 – 1mm (switching)			
Actuation Force (switching)	200 – 750g			
Actuation Force (no switch)	50 – 350g			
Environmental				
Storage Temp	-40°C ~ +80°C			
Operating Temp	-30°C ~ +70°C			
Relative Humidity	20 – 95% RH Non-Condensing			

To find out more about our range of standard and custom touch solutions, or to consult on a project, please visit www.dignity.com.cn or contact the sales office nearest you.

North America	Europe	Asia-Pacific	China
Tel			+86 757 2668 7241
Fax			+86 757 2668 1196
Nasales@dignity.com.cn	eusales@dignity.com.cn	asiasales@dignity.com.cn	cnsales@dignity.com.cn

Dignity reserves the right to change or update, without notice, any information contained within; to alter, without notice, the structure, specifications, materials or other aspects of any of the products contained within; and to discontinue production or distribution of any products specified here or elsewhere. The Dignity logo is a registered trademark of Dignity Electronics Technology Co. Ltd. ©2018 Dignity Electronics Technology Co. Ltd.

