

SR4410xL Series

Panel-Mount Receptacles

The SR4410xL series of panel-mount receptacles mates with all Datakey SlimLine™, Extended SlimLine, NFX and RUGGEDrive™ memory tokens (see token datasheets for more details). The receptacles are designed to keep water and other materials from penetrating the enclosure. The SR4410xL receptacles are available in three versions: an IP65-rated (splash-proof) version – the SR4410SL; an IP67-rated (immersion-rated) version – the SR4410IL; and, an IP67-rated version with EMI-reduction features – the SR4410EL. The SR4410EL has its outer shell molded using an electrically-conductive material to reduce electromagnetic emissions through both reflection and absorption. The SR4410xL receptacles feature a Molex CLIK-Mate™ connector, which provides a secure mating connection with the cable. If a locking connector is not needed, the SR4410 series is available with a standard header connector.

As with all Datakey SlimLine token receptacles, this series features corrosion-resistant, “gold dot” contacts that perform reliably over a wear life of at least 50,000 insertion/removal cycles. The design employs a wiping mechanism to remove any debris or build-up on the token’s contacts each time the token is inserted or removed. The receptacle includes a detent mechanism that contributes to token retention and gives users tactile and audible confirmation when an inserted token is physically engaged. The token/receptacle system also provides a Last-On/First-Off (LOFO) contact that is used by system designers to detect when a memory token has been inserted or removed (contact ATEK Access Technologies for token detection details for the NFX and RUGGEDrive memory tokens). SR4410xL receptacles are mounted from behind the panel and have two non-threaded holes allowing for a variety of customer-supplied fasteners to be used. A gasket is provided with each receptacle.



MECHANICAL	
Operating Life	50,000 Insertion/Removal Cycles Min.
Insertion Force	400 gf Min. / 2 kgf max.
Removal Force	300 gf Min. / 2 kgf max.
Vibration	MIL-STD 810F, Test Method 514.5 15 g (three axes) Operating
ELECTRICAL	
Contact Resistance	Beginning of Life: < 100 mΩ
	End of Life: < 500 mΩ
ENVIRONMENTAL	
Storage Temperature	-40°C to +100°C
Operating Temperature	-40°C to +85°C
Relative Humidity	5% - 95% (non-condensing)
Salt-Fog	MIL-STD 810F Method 509.4 Proc. 1
MATING COMPONENT(S)	
Tokens	All SlimLine, NFX and RUGGEDrive Tokens
Connector	Molex p/n: 502386-0870 Mates with Molex CLIK-Mate™ Wire-to-Board Housing, p/n 502380-0800
Gasket Material (receptacle provides over-tighten protection.)	Temperature-Resistant Silicone (SR4410SL/SR4410IL versions) Electrically Conductive Silicone (SR4410EL version)
Gasket Thickness	0.032" nominal
ORDERING INFORMATION ¹	
SR4410SL (IP65)	606-0071-010A
SR4410IL (IP67)	606-0071-011A
SR4410EL (IP67/EMI)	606-0071-012A

1: "A" suffix on part number indicates RoHS compliance.

2: Customers must design to meet Datakey interface specifications to provide for future memory device compatibility. Interface specifications available at datakey.com

3: RST signal used on IIT Series only.

NOTES:

Conforms with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

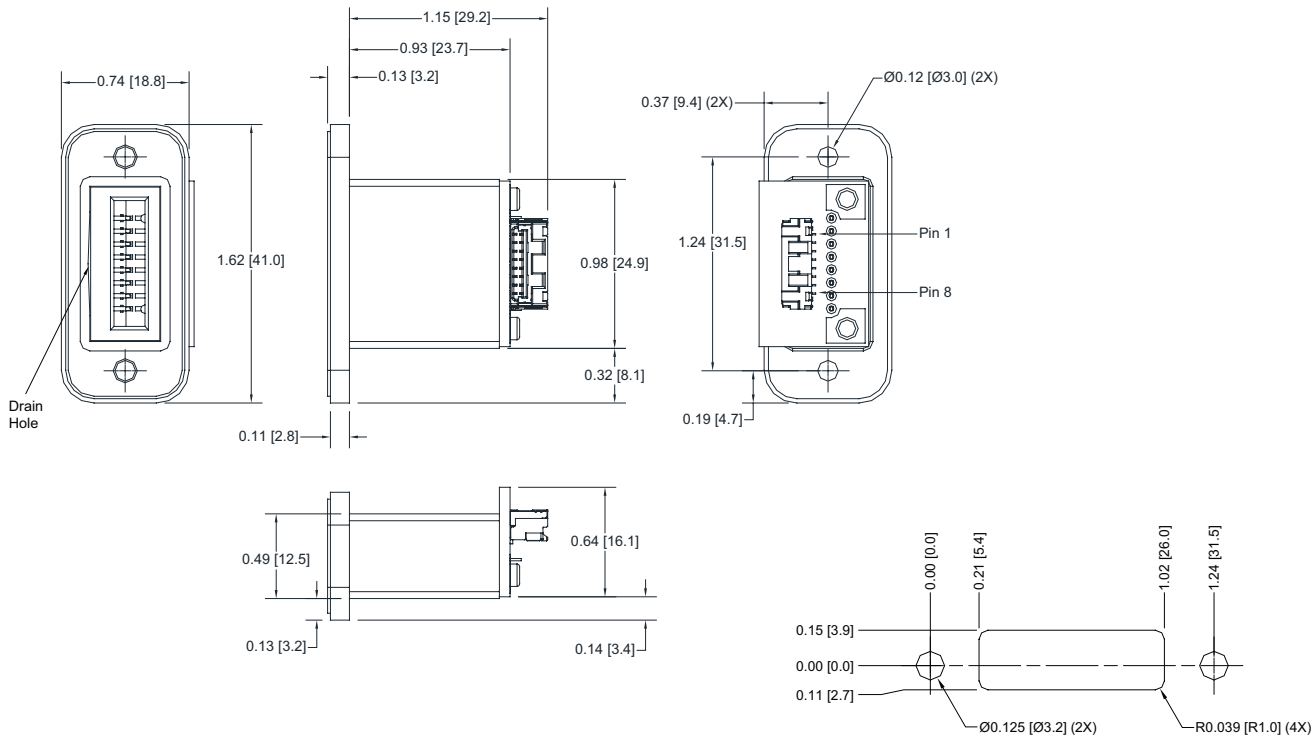
CLIK-Mate is a trademark of Molex



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The power of memory. Secured.



Installation Recommendation: For best water drainage, it is recommended that the receptacle be installed with the output connector above the housing as shown above.
Note: Installation hardware is supplied by the customer.

Panel Cut-Out / Hole Pattern Recommendation: The above recommended panel cut out is for standard "behind" panel-mounting of the SR4410xL receptacle.

PIN-OUT CHART ²					RUGGEDRIVE™ LINE		
PIN #	Microwire	I ² C	SPI	NFX	DFX (SPI)	DFX (SD)	UFX (USB)
Pin 1	LOFO	LOFO	LOFO	DM (USB)	Reserved	DAT2	NC
Pin 2	Ground (GND)	Ground (GND)	Ground (GND)	Ground (GND)	/Chip Select (/CS)	DAT3	GND
Pin 3	Data Out (DO)	Serial Add/Data (SDA)	Data Out (SO)	MISO	Data In (DI)	CMD	NC
Pin 4	Data In (DI)	Do Not Use	Data In (SI)	MOSI	Power (V _{cc})	VDD	DP
Pin 5	Serial Clock (SK)	Serial Clock (SCL)	Serial Clock (SCK)	Serial Clock (SCK)	Serial Clock (SCLK)	CLK	DM
Pin 6	Chip Select (CS)	SIZE / RST ³	/Chip Select (/CS)	/Chip Select (/CS)	Ground (GND)	VSS	NC
Pin 7	Power (V _{cc})	Power (V _{cc})	Power (V _{cc})	Power (V _{cc})	Data Out (DO)	DAT0	+5V
Pin 8	Do Not Use	Do Not Use	/Hold	DP (USB)	Reserved	DAT1	NC

NC = No Connection

Drawing dimensions are in inches and millimeters [mm].
Dimensions are nominal and subject to manufacturer's tolerances.

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