

SR4410xF Series

Panel-Mount Receptacles



SR4410xF series panel-mount receptacles mate with all Datakey SlimLine™, Extended SlimLine, and RUGGEDrive™ memory tokens. These receptacles are designed to keep water and other materials from penetrating the enclosure they are mounted in. They are available in three versions: an IP65-rated (splash-proof) version—SR4410SF; an IP67-rated (immersion-rated) version—SR4410IF; and an IP67-rated version with EMI-reduction features—SR4410CF. The SR4410CF has its outer shell molded using an electrically conductive material to reduce electromagnetic emissions. The SR4410xF receptacles feature a Molex Easy-On FFC/FPC connector, which provides a low-profile connection with a flat flex cable or flex PCB.

All Datakey SlimLine receptacles feature “gold dome” contacts that perform reliably over a wear life of at least 50,000 insertion/removal cycles and employ a wiping mechanism to remove debris or build-up on the token's contacts each time a token is inserted or removed. Also, SR4410xF receptacles include a detent mechanism that contributes to token retention and gives users tactile and audible confirmation when an inserted token is fully engaged. The token/receptacle system 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 RUGGEDrive memory tokens)². SR4410xF receptacles are inserted from behind the panel and feature two non-threaded holes allowing for a variety of customer-supplied fasteners to be used. Additionally, a gasket is provided with each receptacle for sealing.



MECHANICAL

Operating Life ⁴	50,000 Insertion/Removal Cycles Minimum
Insertion Force ⁴	400 gf Minimum / 2 kgf Maximum
Removal Force ⁴	300 gf Minimum / 2 kgf Maximum
Mass (with gasket)	~12 grams

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)
Freezing Rain	MIL-STD-810H, Method 521.4, Glaze Ice
Blowing Dust	MIL-STD-810H, Method 510.7, Proc. I
Blowing Sand	MIL-STD-810H, Method 510.7, Proc. II
Altitude	MIL-STD-810H, Method 500.6, Proc. I & II ≤40,000 ft (12,192 m)
Mechanical Shock	MIL-STD-810H, Method 516.8, Proc. I
Vibration	MIL-STD-810H, Method 514.8, Proc. I

MATING COMPONENT(S)

Tokens	All SlimLine and RUGGEDrive Memory Tokens
Connector	Molex p/n: 5034800800 Mates with Molex 0.50 mm Pitch Premo-Flex 15020 Series or Similar
Gasket Material (receptacle provides over-tighten protection)	Temperature-Resistant Silicone (SR4410SF/SR4410IF versions) Electrically Conductive Silicone (SR4410CF version)
Gasket Thickness	0.032" Nominal

ORDERING INFORMATION¹

SR4410SF (IP65)	606-0071-130A
SR4410IF (IP67)	606-0071-131A
SR4410CF (IP67/EMI)	606-0071-133A

1: "A" suffix on part number indicates RoHS compliance. See CE declaration below for details.

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.

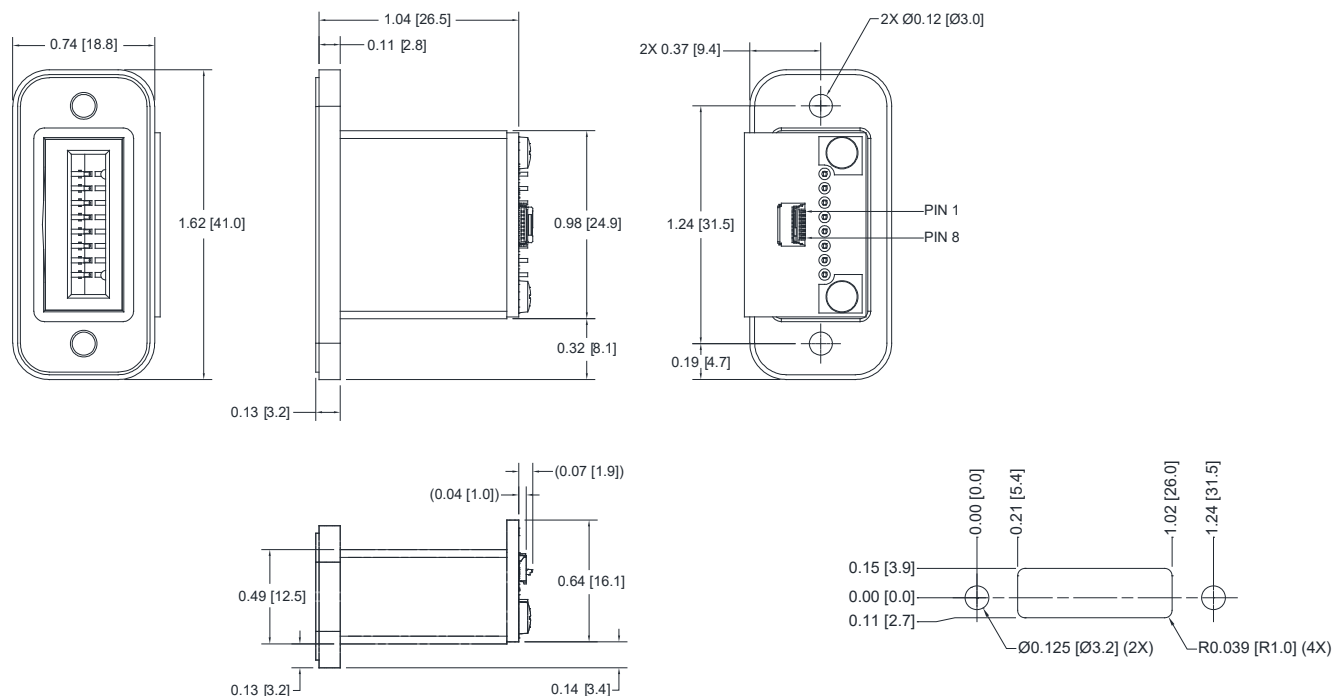
4: Applications where a new token is used each time can reduce retention force prematurely.

NOTES:

Conforms with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011, and as amended by Directive 2015/863/EU, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.



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

Panel Cut-Out / Hole Pattern Recommendation:

The above recommended panel cut out is for standard "behind" panel mounting of the SR4410xF receptacle. If a SlimLine Debris Plug will be used, the above opening can be enlarged to accommodate the Debris Plug's flange.

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

NC = No Connection

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View our full product line at www.datakey.com

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