

SAIE-M12S-4AS-H6.75TL

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold

Germany Fon: +49 5231 14-0

Fax: +49 5231 14-292083 www.weidmueller.com

Similar to illustration





Weidmüller is one of the industry's leading international providers of connectors. An important mainstay in this product family are the circular connectors, which Weidmüller groups under the product name SAI. In the development of SAI products, Weidmüller engineers have always concentrated on achieving rational, cost-effective installation concepts, and – in cooperation with major users – have supplied the markets with well-conceived products which set standards in terms of functionality and quality across the globe. The best examples are the new power distributors with S and T coded M12. These modules are characterised by particularly high currents and voltages. This enables them to also be used, for example, with three-phase motors.

General ordering data

Туре	SAIE-M12S-4AS-H6.75TL	
Order No.	<u>2424040000</u>	
Version	Built-in plugs, M12, M 12, Number of poles: 4,	
	Rear panel mounting	
GTIN (EAN)	4050118432275	
Qty.	10 pc(s).	



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Technical data

D	im	ensions	and	weights
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Net weight	20 g

Environmental Product Compliance

REACH SVHC Lead 7439-92-1

Technical data of PCB plug-in connector

Coding	Α	Housing surface	nickel-plated
Housings	M12 pin	Mounting height	6.75 mm
Mounting thread	M16	Number of poles	4
Shield connection	Yes	Type of mounting	Rear panel mounting
Rated voltage	250 V	Rated voltage (text)	250 V (4-pole) / 60 V (5- pole) / 30 V (8-pole)
Rated current	4 A	Rated current	4 A (5-pole)/ 2 A (8-pole)
Temperature range	-3080 °C	Protection degree	IP67
Contact surface	Au (Gold)	Housing main material	CuZn, nickel-plated
Connection thread	M12	Tightening torque	M12: 0.8 Nm
Mounting thread	M 16	Mounting torque range	1.2 Nm
Mounting onto the PCB	THT solder connection	Insulation strength	100 ΜΩ
Pollution severity	3 (2 within the sealed area)	Plugging cycles	≥ 100
Contact material	CuZn	Lock nut material	Nickel-plated CuZn
Material of the flange-mounted	housing Nickel-plated CuZn		

Material data

Contact material	CuZn	Contact surface	Au (Gold)

System parameters

Mounting onto the PCB	THT solder connection	Insulation strength	100 ΜΩ
Number of poles	4	Pin series quantity	1
Plugging cycles	≥ 100	Protection degree	IP67

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
eClass 9.0	27-44-03-09	eClass 9.1	27-44-03-09
eClass 10.0	27-44-03-09		

Approvals

ROHS	Conform

Downloads

Brochure/Catalogue <u>FL FIELDWIRING EN</u>			
	Brochure/Catalogue	<u>FL FIELDWIRING EN</u>	



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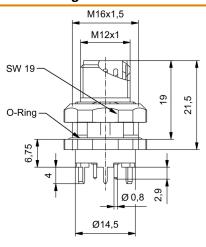
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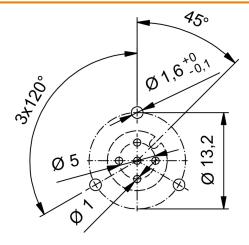
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Drawings

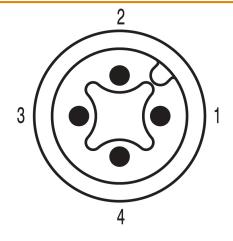
Dimensioned drawing



PCB design



Pole scheme





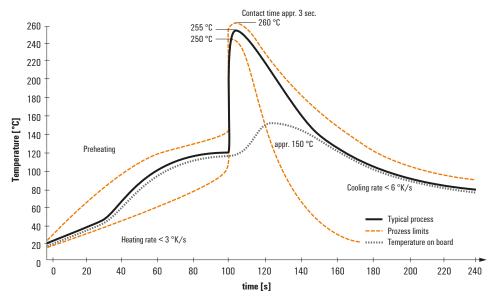
Recommended wave solderding profiles

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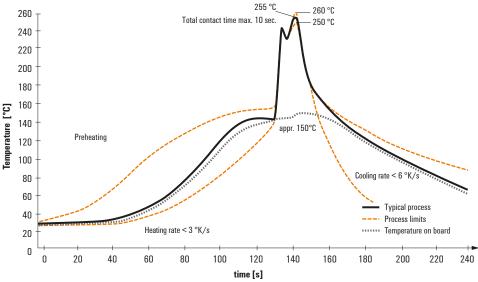
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Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.