

**SAIE-M12S-4AS-H6.75TL****Weidmüller Interface GmbH & Co. KG**

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**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**

Type	SAIE-M12S-4AS-H6.75TL
Order No.	<a href="#">2424040000</a>
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****Dimensions and weights**

Net weight 20 g

**Environmental Product Compliance**

REACH SVHC Lead 7439-92-1

**Technical data of PCB plug-in connector**

Coding	A	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	-30...80 °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 MΩ
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 MΩ
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 [FL FIELDWIRING EN](#)

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## Recommended wave soldering profiles

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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.

We reserve the right to make technical changes.