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## Summary

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Nb of contacts Thermocouple	2
Wire Size/AWG	30 - 22
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Push-pull
Size	0S
Series	S - Indoor Stepped Insert

[https://www.lemo.com/int\\_en/solutions/originals/s-indoor-stepped-insert/erd-0s-302-cyt.html](https://www.lemo.com/int_en/solutions/originals/s-indoor-stepped-insert/erd-0s-302-cyt.html)

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# Technical details

## Electrical Configuration

Nb of contacts Thermocouple	2
Contact Termination Thermocouple	Crimp
Insert configuration value	0S.302/ThC - 1 Thermocouple Pair
Insulator	Y: PEEK for crimp contacts
Rated current	10 A
ThC. Materials (P+/N-)	Copper / Constantan
Contact Dia.	0.9
Wire Size/AWG	30 - 22

## Form & Material

Shell style / Model id	ERD - Fixed receptacle with two nuts (back panel mounting)
Socket / Receptacle	Fixed Panel Rear Mounted
Housing material	Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces
Locking system	Push-pull
Keying	3 keys (alpha=42, gamma=30, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	8.15 g

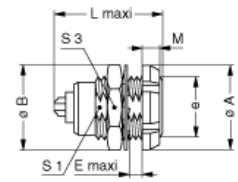
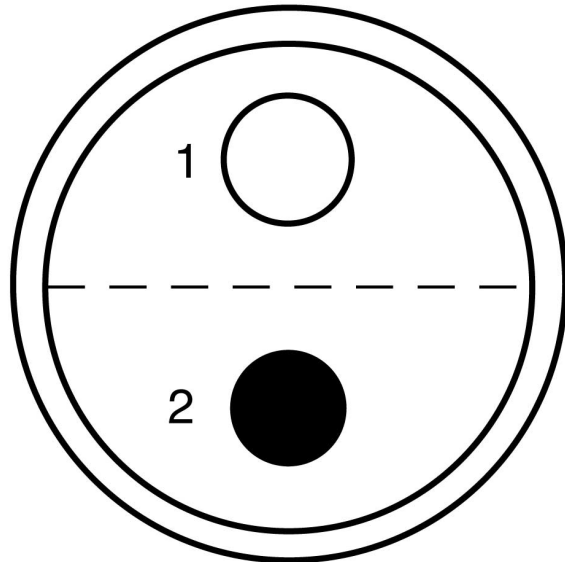
## Environment

Technical domain	Audio Video, Energy and Industrial, Semiconductor, Test and Measurement
Environmental sealing (IP rating)	IP50
Endurance	5000 mating cycles
Temperature range	-55°C / +250°C
Climatical Category	50/175/21
Humidity (max)	<=95% [at 60 deg C /140 F]
Shielding (min)	75 dB (10 MHz)
Shielding (min)	40 dB (1 GHz)
Shock Resistance	100 g [ 6 ms]
Vibration	15 g [10 Hz - 2000 Hz]
Salt Spray Corrosion	>1000 hr

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# Drawings



Contact 1: Konstantan (-)  
Contact 2: Copper (+)

## Dimensions

	<b>A</b>	<b>B</b>	<b>e</b>	<b>E</b>	<b>L</b>	<b>M</b>	<b>S1</b>	<b>S3</b>
mm.	12	12.5	M9x0.6	5.5	18.5	2.5	8.2	11
in.	0.47	0.49		0.22	0.73	0.1	0.32	0.43

## Recommended By Lemo

### Accessories

Replacement contact [EGG.0B.660.ZZE](#)

Compatible cap [BRE.0S.200.NAS](#)

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