



Summary

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Number of contacts Low Voltage	2
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Size	1M
Matching parts	FMN.1M.302.XLC
Series	M - Rugged Ratchet coupling

Technical details

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/hen-1m-302-xlnp.html

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Electrical Configuration

Contact Termination Low voltage	PCB - Straight
R (max)	3.6 mOhm
Insert configuration value	1M.302 - 2 Low Voltage
Insulator	L: PEEK
Rated current	19 Amps
Contact Type	Print (straight)
Contact Dia.	1.3 mm (0.051in)
Number of contacts Low Voltage	2
Gender	Standard

Form & Material

Shell style / Model id	HE - Fixed receptacle, nut fixing for printed circuit, watertight
Socket / Receptacle	Fixed Panel Rear Mounted
Housing material	Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass
Locking system	Ratchet
Keying	3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Variant	Watertight unmated (connector to device)
Weight	5.76 g

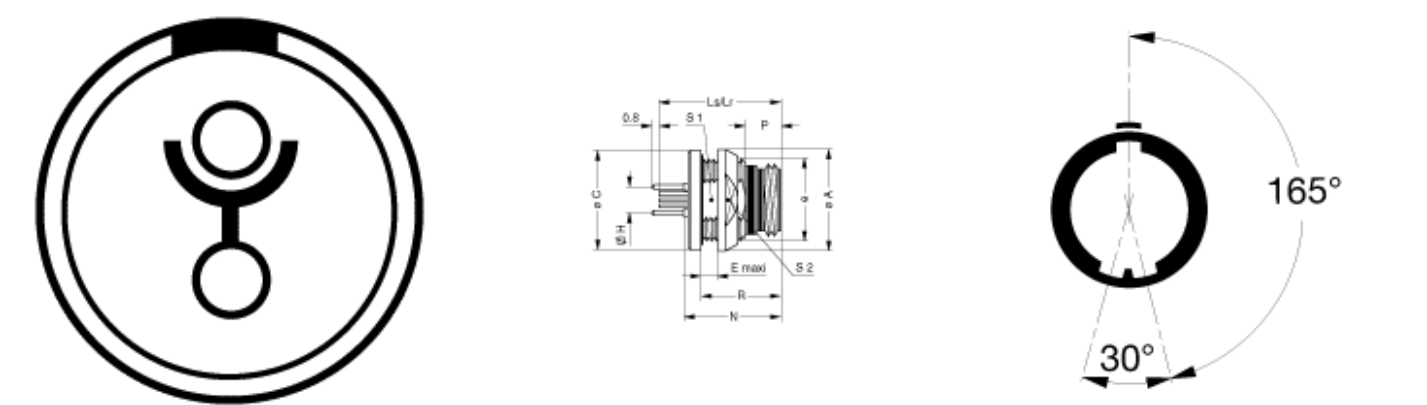
Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
Endurance	3000 mating cycles
Temperature range	-20°C / +80°C
EMI Shielding EIA 364-66A	>= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz), >= 40 dB (10 GHz)
Gunfire vibration	25 Hz - 2000 Hz, 3 axis (Apache helicopter)
Humidity (max)	21 days at 95%
Lighting strike EIA 364-76	10K amps - 6 times
Shock Resistance	300 g [3 ms]
Vibration-Random	37.8 g rms - 3 axes, 4 hr amb [50 Hz - 2000 Hz]
Vibration-Sine	30 g, 3 axes, 12 hr [10 Hz - 2000 Hz]
Salt Spray Corrosion	max. 48 hr

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Drawings



Dimensions

	A	C	e	E	H	Ls	Lr	N	P	R	S1	S2
mm.	18	17.8	M14x1.00	5	7.62	20.8	21	16.8	5.3	13.8	12.5	16
in.	0.71	0.7		0.2	0.3	0.82	0.83	0.66	0.21	0.54	0.49	0.63