**Basic information**

Part number	G31KAC-PD8LCD0-0000
Category	connector
Type of connector	receptacle
Assembly situation	rear_panel_mounting
Size	1

Contact insert description

Special features	data_transmission
Transmission type	Ethernet/IP® [1 Gbit/s]
Number of contacts	8
Contact type	sockets
Contact diameter	0.5 mm
Termination type	solder_cup
Termination diameter	0.65 mm
Wire cross section AWG	AWG 26

Technical information

Nominal current single contact	5 A	IEC 60512-5-2:2002 (DIN EN 60512-5-2:2003)
Max. current insert	2.6	VDE 0298-4:2003
Test voltage	750 V	SAE AS 13441:1998 method 3001.1
Max. creepage distance (contact to contact)	0.5 mm (Contact to housing)	
Max. creepage distance (contact to housing)	0.7 mm (Contact to housing)	
Max. clearance distance (contact to contact)	0.5 mm (Contact to contact)	
Max. clearance distance (contact to housing)	0.7 mm (Contact to housing)	

Mechanical and environmental data

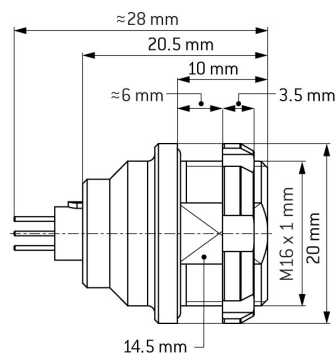
Locking principle	break_away , push_pull
Keying	coding_30°
Mating cycles	5.000
IP class	IP68
Max. operating temperature	120 °C
Min. operating temperature	-40 °C
Tightening torque	4.5 Nm
Weight	14.93 g

ip_protection_class_refers_to_mated_condition

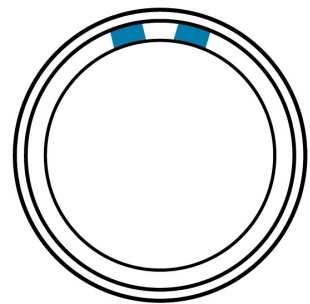
Material and surface treatments

Material	cu_alloy_with_matt_chrome_finish
Contact material	cu_alloy_with_gold_finish

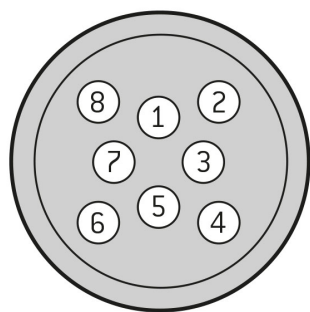
DIMENSIONS



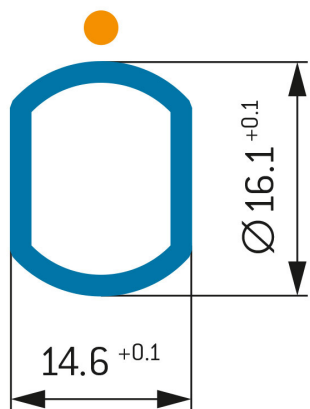
CODING: 30 °



POSITIONS: 8 positions



PANEL CUT OUT:



Further technical information and downloads

Connection diagram	connection_diagram_8_pin_ethernet_1gbs_10gbs_rj45
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[3D-File \(STP File\)](#)

Technical specifications
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