lumbergautomation
A BELDEN BRAND

Product: RSFM 5 M

M12 Standard Sensor/Actuator Receptacle Connector: Male, front mount, M12 - mating side, stranded wires - connecting side, 5-pin, A-coded, unshielded, metallic grey housing, 50 V AC / 60 V DC, 4 A

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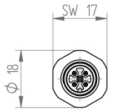
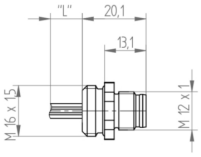
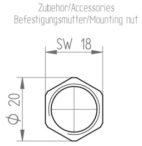
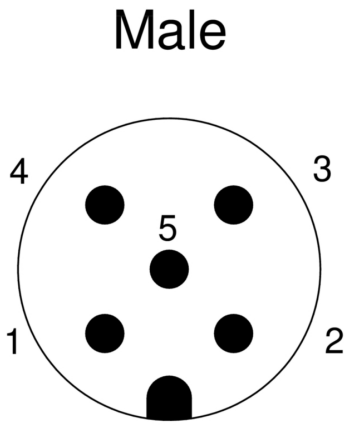
Technical Drawing









Technical Specifications

Face View

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
brown	white	blue	black	green-yellow

Technical Data

Product Family:	Sensor / Actuator Connectors
Side 1 Product Sub Family:	M12 Standard
Mating Side:	M12
Connecting Side:	Stranded Wires
Brand:	Lumberg Automation
Connector Type:	Receptacle
Side 1 Type of Contact/Gender:	Male
Connector Design:	Front Mount
Number of Pins:	5
Coding, Side 1:	A
Attachment Type:	Screw-Locking
Voltage Rating:	60 V
Rated Voltage (UL):	30 V AC/DC
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	50 V AC / 60 V DC
Current Rating:	4 A

Rated Current (UL)*:	4 A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100
Type of Connection:	Solder
Thread Size:	M16x1.5
Ambient Temperature (Operation)*:	- 25 °C - + 85 °C
Operating Temperature (UL):	max. + 50 °C
Protection Degree / IP Rating**:	IP65, IP67, IP69K
Design Standard:	Pin assignment deviating from IEC 61076-2-101 and IEC 61140
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Clearance / Creepage Distance:	DIN EN 60664-1 (2008/01); VDE 0110-1
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)

Materials

Contact Base Material:	CuZn
Side 1 Contact Plating:	Cu/Au
Contact Bearer Material:	PA
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 V-0
Potted:	Yes
Housing Material:	CuZn
Housing Plating:	Nickel-plated
Housing Color:	Silver
Attachment Material:	CuZn
Attachment Plating:	Nickel-plated
O-Ring Material:	FKM

Additional Technical Data

Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
Accessories to Order Separately:	000-025-049 Mounting Nut M16x1.5

Cable Data

Cable Number:	908 09 / 908 43
Conductor Size:	4x0.355 mm²+1x0.50 mm²(GNYE)
Number of Wires:	5
Conductor Material:	Cu
Wire Insulation Material:	PVC
Insulated Wire Diameter:	ø 1.55 mm ± 0.1 mm / ø 1.8 mm ± 0.1 mm (GNYE)
Ambient Temperature (Fixed Installation):	- 40 °C - + 90 °C
Ambient Temperature (Flex Installation):	- 20 °C - + 90 °C
UL Cable Type:	AWM: 1007+1679 (GNYE)
Flammability Class (Cable Jacket):	DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2, UL-VW1
Core Colors:	black, white, blue, brown, yellow/green

Approvals

UL-File:	E315587
UL:	cURus

Safety & Environmental Compliance

RoHS Compliant:	yes

Notes

Note Derating:	* Notice derating

Protection Degree / IP Rating Note:	* only if mounted and locked in combination with Hirschmann / Lumberg connector. On the installation side tightness has to be assured by taking proper measures.
Note:	The receptacle connector is constructively intended for usage in IP67 and IP69K-products. To realise this protection class, the estimated location has to be designed accordingly. Further details see IEC 61076-2-101. Connection area must be epoxy potted.
UL Note:	The receptacle connector is constructively intended for usage in IP67-products. To realise this protection class, the estimated location has to be designed accordingly. Further details see IEC 61076-2-101

Variants

Item #	Item Description	Cable Length
13084	RSFM 5/0,05 M	0.05 m
5253	RSFM 5/0,14 M	0.14 m
22088	RSFM 5/0,2 M	0.2 m
26146	RSFM 5/0,5 M	0.5 m
83983	RSFM 5/1 M	1 m
108897	RSFM 5/2 M	2 m

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