



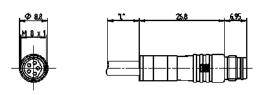
# Product: RSM 5-RKMW 5-293

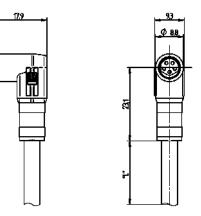
Sensor/Actuator Double-Ended Cordset: Male straight B-coded translucent 5-pin M8 Snap-In connector to female angled B-coded translucent 5-pin M8 Snap-In connector, 50 V AC / 60 V DC, 4 A; PUR black cable, 5-wires, 0.34 mm<sup>2</sup>

#### **Product Description**

Sensor/Actuator Double-Ended Cordset: Male straight B-coded translucent 5-pin M8 Snap-In connector to female angled B-coded translucent 5-pin M8 Snap-In connector, 50 V AC / 60 V DC, 4 A; PUR black cable, 5-wires, 0.34 mm<sup>2</sup>

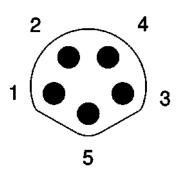
#### **Technical Drawing**





Male





**Technical Specifications** 

Face View Side 1

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
brown	white	blue	black	grey

Face View Side 2

Pin 1 Pin 2 Pin 3 Pin 4 Pin 5

 $3 \underbrace{\bigcirc \bigcirc \bigcirc \bigcirc 0}{5} 1$ 

brown white blue black grey

### **Product Description**

Product Family:	Sensor / Actuator Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Unshielded
Rated Voltage:	60 V
Rated Voltage (UL):	30 V AC/DC
Rated Impulse Voltage:	0.8 kV
Operating Voltage:	50 V AC / 60 V DC
Rated Current*:	4 A
Rated Current (UL)*:	3 A

### Technical Data Side 1

Product Sub Family:	M8 Snap-In
Type of Contact / Gender:	Male
Connector Design:	Straight
Attachment Type:	Snap- and Screw-Locking
Number of Pins:	5
Coding:	В
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 90 °C
Operating Temperature (UL):	max. + 75 °C
Protection Degree / IP Rating**:	IP65 (in combination with female M8 Snap-In connector); IP65, IP67 (in combination with female M8 Standard connector)
Design Standard:	IEC 61076-2-104
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	II acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material:	CuZn
Contact Plating:	Cu/Au
Contact Bearer Material:	PA 66 GF
Contact Bearer Color:	Orange
Flammability Class (Contact Bearer):	UL 94 V-0
Molded Body Material:	TPU
Molded Body Color:	Translucent
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	CuZn
Attachment Plating:	Nickel-plated
Note:	Do not connect or disconnect under load.

#### **Cable Data**

Cable Number:293Conductor Size:0.34 mm²Number of Wires:5Minimal Bending Radius (Fixed Inst):> 5 x DMinimal Bending Radius (Fixed Inst):> 10 x DCycles (Bending):> 5 MCycles (Torsion):> 5 M @ ± 360 °/1 mConductor material:CuCable Jacket Material:PURCable Jacket Color:black matt similarly RAL 9005Cable Diameter D:ø 5.0 ± 0.20 mmWire Insulation Material:PPInsulated Wire Diameter:Ø 1.30 ± 0.10 mm		
Number of Wires:5Number of Wires:5Minimal Bending Radius (Fixed Inst):>5 x DMinimal Bending Radius (Flexible Inst):>10 x DCycles (Bending):>5 MCycles (Bending):>5 MCycles (Torsion):>5 M @ ± 360 °/1 mConductor material:CuCable Jacket Material:PURCable Jacket Color:black matt similarly RAL 9005Cable Diameter D:ø 5.0 ± 0.20 mmWire Insulation Material:PPInsulated Wire Diameter:ø 1.30 ± 0.10 mm	Cable Number:	293
Minimal Bending Radius (Fixed Inst):     > 5 x D       Minimal Bending Radius (Fixed Inst):     > 10 x D       Cycles (Bending):     > 5 M       Cycles (Torsion):     > 5 M @ ± 360 °/1 m       Conductor material:     Cu       Cable Jacket Material:     PUR       Cable Jacket Color:     black matt similarly RAL 9005       Cable Diameter D:     ø 5.0 ± 0.20 mm       Wire Insulation Material:     PP       Insulated Wire Diameter:     ø 1.30 ± 0.10 mm	Conductor Size:	0.34 mm <sup>2</sup>
Minimal Bending Radius (Flexible Inst):   > 10 x D     Cycles (Bending):   > 5 M     Cycles (Torsion):   > 5 M @ ± 360 °/1 m     Conductor material:   Cu     Cable Jacket Material:   PUR     Cable Jacket Color:   black matt similarly RAL 9005     Cable Diameter D:   ø 5.0 ± 0.20 mm     Wire Insulation Material:   PP     Insulated Wire Diameter:   ø 1.30 ± 0.10 mm	Number of Wires:	5
Cycles (Bending):   > 5 M     Cycles (Torsion):   > 5 M @ ± 360 °/1 m     Conductor material:   Cu     Cable Jacket Material:   PUR     Cable Jacket Color:   black matt similarly RAL 9005     Cable Diameter D:   ø 5.0 ± 0.20 mm     Wire Insulation Material:   PP     Insulated Wire Diameter:   ø 1.30 ± 0.10 mm	Minimal Bending Radius (Fixed Inst):	>5xD
Cycles (Torsion):   > 5 M @ ± 360 °/1 m     Conductor material:   Cu     Cable Jacket Material:   PUR     Cable Jacket Color:   black matt similarly RAL 9005     Cable Diameter D:   ø 5.0 ± 0.20 mm     Wire Insulation Material:   PP     Insulated Wire Diameter:   ø 1.30 ± 0.10 mm	Minimal Bending Radius (Flexible Inst):	> 10 x D
Conductor material: Cu   Cable Jacket Material: PUR   Cable Jacket Color: black matt similarly RAL 9005   Cable Diameter D: ø 5.0 ± 0.20 mm   Wire Insulation Material: PP   Insulated Wire Diameter: ø 1.30 ± 0.10 mm	Cycles (Bending):	> 5 M
Cable Jacket Material: PUR   Cable Jacket Color: black matt similarly RAL 9005   Cable Diameter D: ø 5.0 ± 0.20 mm   Wire Insulation Material: PP   Insulated Wire Diameter: ø 1.30 ± 0.10 mm	Cycles (Torsion):	> 5 M @ ± 360 °/1 m
Cable Jacket Color: black matt similarly RAL 9005   Cable Diameter D: ø 5.0 ± 0.20 mm   Wire Insulation Material: PP   Insulated Wire Diameter: ø 1.30 ± 0.10 mm	Conductor material:	Cu
Cable Diameter D: Ø 5.0 ± 0.20 mm   Wire Insulation Material: PP   Insulated Wire Diameter: Ø 1.30 ± 0.10 mm	Cable Jacket Material:	PUR
Wire Insulation Material: PP   Insulated Wire Diameter: ø 1.30 ± 0.10 mm	Cable Jacket Color:	black matt similarly RAL 9005
Insulated Wire Diameter: Ø 1.30 ± 0.10 mm	Cable Diameter D:	ø 5.0 ± 0.20 mm
	Wire Insulation Material:	PP
Archivet Temperature (Fixed Installation) 50 °C (10 + 00 °C)	Insulated Wire Diameter:	ø 1.30 ± 0.10 mm
Ambient remperature (rixed installation) 50 C - + 50 C (UL: + 60 C)	Ambient Temperature (Fixed Installation):	- 50 °C - + 90 °C (UL: + 80 °C)

Ambient Temperature (Flex Installation):	- 25 °C - + 90 °C (UL: + 80 °C)
Ambient Temperature (Drag Chain Inst):	- 25 °C - + 60 °C
UL Cable Type:	AWM: 20549
Flammability Class (Cable Jacket):	DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2
Cable Characteristics:	Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Free of lacquer wetting disturbing substances; Coldness Flexibility

### **Technical Data Side 2**

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Attachment Type, Side 2:     Snap-Locking       Number of Pins, Side 2:     5       Coding, Side 2:     Image: Side 2:       Contact Resistance, Side 2:     100 Polm       Insulation Resistance, Side 2:     100 Polm       Anbient Temperature (Operation)     1009 Om       Ambient Temperature (Operation)     400 Contact Side 2:       Operating Temperature (U), Side 2:     100 Contact Side 2:       Protection Degree / IP Rating, Side 2:     For Side 2:       Piolution Degree, Side 2:     100 Contact Side 2:       Piolution Degree, Side 2:     Icaton Dit Net Motion (U) Dit	Type of Contact / Gender, Side 2:	Female
Number of Pins, Side 2:     Side       Coding, Side 2:     B       Contact Resistance, Side 2:     10 nOhm       Insulation Resistance, Side 2:     100 nOhm       Atting Cycles, Side 2:     100 nOhm       Atting Cycles, Side 2:     100 nOhm       Arbient Temperature (Operation), Side 2:     40 °C - 90 °C       Operating Temperature (Operation), Side 2:     nax + 75 °C       Protection Degree / IP Rating, Side 2:     Fo6       Protection Degree / IP Rating, Side 2:     Fo6       Polution Degree / IP Rating, Side 2:     IC 61076-2104       Polution Degree / IP Rating, Side 2:     Sice. to DIN EN 60664.1 (VDE 0110-1)       Overvoltage Category, Side 2:     Icac. to DIN EN 60664.1 (VDE 0110-1)       Orient Base Material, Side 2:     Icac. to DIN EN 60664.1 (VDE 0110-1)       Contact Base Material, Side 2:     Icac. to DIN EN 60664.1 (VDE 0110-1)       Contact Base Material, Side 2:     Icac. to DIN EN 60664.1 (VDE 0110-1)       Contact Base Material, Side 2:     Icac. to DIN EN 60664.1 (VDE 0110-1)       Contact Base Material, Side 2:     Icac. to DIN EN 60664.1 (VDE 0110-1)       Contact Base Material, Side 2:     Icac. to DIN EN 60664.1 (VDE 0110-1)       Contact Base Material, Side 2: <td>Connector Design, Side 2:</td> <td>Angled</td>	Connector Design, Side 2:	Angled
Coding, Side 2:BCohaca Resistance, Side 2:i 0 in OmaInsulation Resistance, Side 2:i 0 in OmaMaing Cycles, Side 2:i 0 in OmaArbient Temperature (Operation)i 0 in ConcentionOperating Temperature (Operation)i 0 in ConcentionProtection Degree/ IP Rationsi 0 in ConcentionProtection Degree/ IP Rationsi 0 in ConcentionPolot Operation Side 2:i 0 in ConcentionPolot Operation Side 2: <td>Attachment Type, Side 2:</td> <td>Snap-Locking</td>	Attachment Type, Side 2:	Snap-Locking
No.Contact Resistance, Side 2:\$10 mOhmInsulation Resistance, Side 2:\$100Mating Cycles, Side 2:\$100Ambient Temperature (Operation), Side 2:\$10° COperating Temperature (UL), Side 2:max. + 75° CProtection Degree / IP Rating, Side 2:IP65Degret Standard, Side 2:Ic6 1076-2104Polution Degree, Side 2:aco. to DIN EN 60664.1 (VDE 0110-1)Contact Reside Attention, Side 2:ULAContact Reside Attention, Side 2:ULAContact Plating, Side 2:ULAContact Plating, Side 2:ULAContact Reside Attention, Side 2:Notact Attention, Side 2:Contact Reside Attention, Side 2:N	Number of Pins, Side 2:	5
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Ambient Temperature (Operation), Side 2:- 40°C - 40°COperating Temperature (UL, Side 2:max. 475°CProtection Degree / IP Rating, Side 2:IP65Design Standard, Side 2:EC 61076-2-104Pollution Degree, Side 2:acc. to DIN EN 60664-1 (VDE 0110-1)Overvoltage Category, Side 2:uZnContact Base Material, Side 2:UZnContact Plating, Side 2:UANContact Plating, Side 2:Dia Contact Side 2:Dia Contact Plating, Side 2:Dia Contact Side 2:Contact Plating, Side 2:Dia Contact Side 2:Dia Contact Plating, Side 2:Dia Contact Side 2:Contact Plating, Side 2:Dia Contact Side 2:Dia Contact Plati	Insulation Resistance, Side 2:	> 10^9 Ohm
Operating Temperature (UL), Side 2:max. +75 °CProtection Degree / IP Rating, Side 2**IP65Design Standard, Side 2:EC 61076-2-104Pollution Degree, Side 2:3 cac. to DIN EN 60664-1 (VDE 0110-1)Overvoltage Category, Side 2:II cac. to DIN EN 60664-1 (VDE 0110-1)Contact Base Material, Side 2:CuZnContact Plating, Side 2:U/AuPollution Degree Material, Side 2:Pollution En 60664-1 (VDE 0110-1)Contact Plating, Side 2:Pollution En 60664-1 (VDE 0110-1)C	Mating Cycles, Side 2:	≤ 100
Protection Degree / IP Rating, Side 2**IP65Design Standard, Side 2:EC 61076-2-104Pollution Degree, Side 2:3 acc. to DIN EN 60664-1 (VDE 0110-1)Overvoltage Category, Side 2:II acc. to DIN EN 60664-1 (VDE 0110-1)Contact Base Material, Side 2:CuZnContact Plating, Side 2:Cu/AuPolution Degree Material, Side 2:Photo Sing Category Side 2:Overvoltage Category Side 2:Photo Sing Category Side 2:Overvoltage Category Side 2:CuZnContact Plating, Side 2:Photo Sing Category Side 2:Overvoltage Category Side 2:Photo Sing Category Si	Ambient Temperature (Operation), Side 2*:	- 40 °C - + 90 °C
Design Standard, Side 2:IEC 61076-2-104Pollution Degree, Side 2:3 acc. to DIN EN 60664-1 (VDE 0110-1)Overvoltage Category, Side 2:II acc. to DIN EN 60664-1 (VDE 0110-1)Contact Base Material, Side 2:CuZnContact Plating, Side 2:Cu/AuPonter Material, Side 2:PA 66 GF	Operating Temperature (UL), Side 2:	max. + 75 °C
Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)   Overvoltage Category, Side 2: II acc. to DIN EN 60664-1 (VDE 0110-1)   Contact Base Material, Side 2: CuZn   Contact Plating, Side 2: Cu/Au   Contact Baser Material, Side 2: PA 66 GF	Protection Degree / IP Rating, Side 2**:	IP65
Overvoltage Category, Side 2: II acc. to DIN EN 60664-1 (VDE 0110-1)   Contact Base Material, Side 2: CuZn   Contact Plating, Side 2: Cu/Au   Contact Bearer Material, Side 2: PA 66 GF	Design Standard, Side 2:	IEC 61076-2-104
Contact Base Material, Side 2: CuZn   Contact Plating, Side 2: Cu/Au   Contact Bearer Material, Side 2: PA 66 GF	Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Plating, Side 2: Cu/Au   Contact Bearer Material, Side 2: PA 66 GF	Overvoltage Category, Side 2:	II acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Bearer Material, Side 2: PA 66 GF	Contact Base Material, Side 2:	CuZn
	Contact Plating, Side 2:	Cu/Au
Contact Bearer Color, Side 2: Orange	Contact Bearer Material, Side 2:	PA 66 GF
	Contact Bearer Color, Side 2:	Orange
Flammability Class (Contact Bearer), Side 2: UL 94 V-0		UL 94 V-0
Molded Body Material, Side 2: TPU	Molded Body Material, Side 2:	TPU
Molded Body Color, Side 2: Translucent	Molded Body Color, Side 2:	Translucent
Flammability Class (Molded Body), Side 2: UL 94 HB	Flammability Class (Molded Body), Side 2:	UL 94 HB

### Approvals

UL-File:	E315587
UL:	UL 2238; cURus

## Safety & Environmental Compliance

RoHS Compliant:	yes
Resistances	
Halogenfree:	DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1

### Notes

Note Derating:	Notice derating
Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.

#### Variants

Item #	Item Description	Cable Length
934894117	RSM 5-RKMW 5-293/0,3 M	0.3 m
934894118	RSM 5-RKMW 5-293/0,6 M	0.6 m
934894119	RSM 5-RKMW 5-293/1 M	1 m
934894120	RSM 5-RKMW 5-293/2 M	2 m
934894121	RSM 5-RKMW 5-293/3 M	3 m
934894122	RSM 5-RKMW 5-293/5 M	5 m
934894123	RSM 5-RKMW 5-293/10 M	10 m
934894124	RSM 5-RKMW 5-293/15 M	15 m

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