



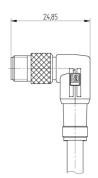
# Product: RSMWV 3-RKMWV/LED A 3-224 ☑

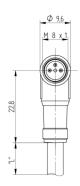
Sensor/Actuator Double-Ended Cordset: Male angled A-coded translucent 3-pin M8 Standard connector to female angled A-coded translucent 3-pin M8 Standard connector with 2xLEDs (PNP), 10-30 V DC, 4 A; PUR black cable, 3-wires, 0.34 mm<sup>2</sup>

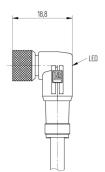
### **Product Description**

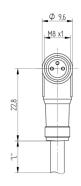
Sensor/Actuator Double-Ended Cordset: Male angled A-coded translucent 3-pin M8 Standard connector to female angled A-coded translucent 3-pin M8 Standard connector with 2xLEDs (PNP), 10-30 V DC, 4 A; PUR black cable, 3-wires, 0.34 mm²

## **Technical Drawing**

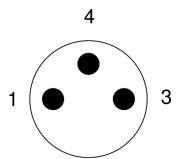




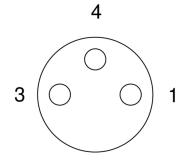


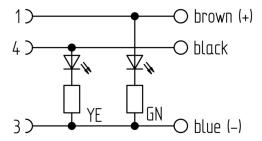


# Male



# Female





# **Technical Specifications**

### Face View Side 1

Pin 1	Pin 3	Pin 4
brown	blue	black

### Face View Side 2



# **Product Description**

Product Family:	Sensor / Actuator Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Unshielded
Rated Voltage:	30 V
Rated Voltage (UL):	30 V DC
Rated Impulse Voltage:	0.5 kV
Operating Voltage:	10-30 V DC
Rated Current*:	4 A
Rated Current (UL)*:	4 A

## **Technical Data Side 1**

Product Sub Family:	M8 Standard
Type of Contact / Gender:	Male
Connector Design:	Angled
Attachment Type:	Coupling Screw
Number of Pins:	3
Coding:	A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 90 °C
Operating Temperature (UL):	max. + 70 °C
Protection Degree / IP Rating**:	IP65, IP67, IP69K
Design Standard:	IEC 61076-2-104
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material:	CuSn
Contact Plating:	Cu/Au
Contact Bearer Material:	TPU
Contact Bearer Color:	Orange
Flammability Class (Contact Bearer):	UL 94 HB

Molded Body Material:	TPU
Molded Body Color:	Translucent
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	CuZn
Attachment Plating:	Nickel-plated
Fastening Torque (Attachment):	M 8x1: 30 Ncm, hand-tight
Note:	Do not connect or disconnect under load.

# **Cable Data**

Cable Number:	224
Conductor Size:	0.34 mm <sup>2</sup>
Number of Wires:	3
Minimal Bending Radius (Fixed Inst):	>5 x D
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 4.30 ± 0.20 mm
Wire Insulation Material:	PP
Insulated Wire Diameter:	ø 1.30 ± 0.10 mm
Ambient Temperature (Fixed Installation):	- 50 °C - + 80 °C
Ambient Temperature (Flex Installation):	- 25 °C - + 80 °C
Ambient Temperature (Drag Chain Inst):	- 25 °C - + 60 °C
UL Cable Type:	AWM: 20549
Flammability Class (Cable Jacket):	DIN EN 50265-2-2, VDE 0482-265-2-2, IEC 60332-2-2, CSA FT2
Cable Characteristics:	Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Free of lacquer wetting disturbing substances; Coldness Flexibilty

# **Technical Data Side 2**

Type of Contact / Gender, Side 2:         Female           Connector Design, Side 2:         Angled           Attachment Type, Side 2:         Coupling Nut           Number of Pins, Side 2:         3           Coding, Side 2:         A           Contact Resistance, Side 2:         ≤ 10 mOhm           Insulation Resistance, Side 2:         > 10°9 Ohm           Mating Cycles, Side 2:         > 40°C + 90°C           Operating Temperature (Operation), Side 2:         - 40°C + 90°C           Operating Temperature (UL), Side 2:         1P65, IP67, IP69K           Design Standard, Side 2:         1EC 61076-2-104           Pollution Degree, Side 2:         3 acc. to DIN EN 60664-1 (VDE 0110-1)           Overvoltage Category, Side 2:         3 acc. to DIN EN 60664-1 (VDE 0110-1)           Contact Base Material, Side 2:         CuSn           Contact Bearer Material, Side 2:         CuSn           Contact Bearer Material, Side 2:         TPU           Contact Bearer Material, Side 2:         Orage           Islammability Class (Contact Bearer), Side         U, 94 HB           Molded Body Material, Side 2:         TPU	Teeliniear Buta Gide 2	
Connector Design, Side 2:         Angled           Attachment Type, Side 2:         Coupling Nut           Number of Pins, Side 2:         3           Coding, Side 2:         4           Contact Resistance, Side 2:         5 10 mOhm           Insulation Resistance, Side 2:         > 10% Ohm           Mating Cycles, Side 2:         > 10% Ohm           Ambient Temperature (Uperation), Side 2:         > 40 °C + 90 °C           Operating Temperature (UL), Side 2:         max. + 70 °C           Protection Degree / IP Rating, Side 2:*         1655, IP67, IP69K           Design Standard, Side 2:         18 Ce 1076-2-104           Pollution Degree, Side 2:         3 acc. to DIN EN 60664-1 (VDE 0110-1)           Quervoitage Category, Side 2:         3 acc. to DIN EN 60664-1 (VDE 0110-1)           Contact Base Material, Side 2:         Cul/Au           Contact Bearer Color, Side 2:         Cul/Au           Contact Bearer Color, Side 2:         Cury           Pillumability Class (Contact Bearer), Side 2:         U. 94 HB           Molded Body Material, Side 2:         Translucent           Molded Body Color, Side 2:         Translucent           Flammability Class (Molded Body), Side 2:         Translucent           Molded Region (Molded Body), Side 2:         UL 94 HB <th< td=""><td>Product Sub Family, Side 2:</td><td>M8 Standard</td></th<>	Product Sub Family, Side 2:	M8 Standard
Attachment Type, Side 2:         Coupling Nut           Number of Pins, Side 2:         3           Coding, Side 2:         A           Contact Resistance, Side 2:         \$ 10 mOhm           Insulation Resistance, Side 2:         \$ 100 mOhm           Mating Cycles, Side 2:         \$ 100           Ambient Temperature (Operation), Side 2:         \$ 40 °C + 90 °C           Operating Temperature (UL), Side 2:         \$ 40 °C + 90 °C           Operating Temperature (UL), Side 2:         \$ 165, IP67, IP68K           Design Standard, Side 2:         \$ 16C 61076-2-104           Pollution Degree, Side 2:         \$ acc. to DIN EN 60664-1 (VDE 0110-1)           Overvoltage Category, Side 2:         \$ 1 acc. to DIN EN 60664-1 (VDE 0110-1)           Contact Base Material, Side 2:         CuSn           Contact Bearer Material, Side 2:         CuSn           Contact Bearer Material, Side 2:         TPU           Contact Bearer Color, Side 2:         TPU           Molded Body Material, Side 2:         TPU           Molded Body Material, Side 2:         TPU           Molded Body Color, Side 2:         Translucent           Flammability Class (Molded Body), Side 2:         Translucent           Flammability Class (Molded Body), Side 2:         Translucent           Hatchment Material	Type of Contact / Gender, Side 2:	Female
Number of Pins, Side 2:         3           Coding, Side 2:         A           Contact Resistance, Side 2:         \$ 10 mOhm           Insulation Resistance, Side 2:         > 10°9 Ohm           Mating Cycles, Side 2:         \$ 100           Ambient Temperature (Operation), Side 2:         > 40 °C - + 90 °C           Operating Temperature (UL), Side 2:         max. + 70 °C           Protection Degree / IP Rating, Side 2:         IEC 61076-2-104           Design Standard, Side 2:         IEC 61076-2-104           Overvoltage Category, Side 2:         III acc. to DIN EN 60664-1 (VDE 0110-1)           Overvoltage Category, Side 2:         CuSn           Contact Base Material, Side 2:         CuSn           Contact Plating, Side 2:         CuI/Au           Contact Bearer Material, Side 2:         TPU           Contact Bearer Color, Side 2:         Orange           Flammability Class (Contact Bearer), Side 2:         TPU           Molded Body Material, Side 2:         TPU           Molded Body Material, Side 2:         Translucent           Flammability Class (Molded Body), Side 2:         Translucent           Flammability Class (Molded Body), Side 2:         Translucent	Connector Design, Side 2:	Angled
Coding, Side 2:         A           Contact Resistance, Side 2:         \$ 10 mOhm           Insulation Resistance, Side 2:         > 100°9 Ohm           Mating Cycles, Side 2:         \$ 100           Ambient Temperature (Operation), Side 2:         * 40 °C + 90 °C           Operating Temperature (UL), Side 2:         max. + 70 °C           Protection Degree / IP Rating, Side 2:         IEC 61076-2-104           Pollution Degree, Side 2:         3 acc. to DIN EN 60684-1 (VDE 0110-1)           Overvoltage Category, Side 2:         Ill acc. to DIN EN 60684-1 (VDE 0110-1)           Contact Base Material, Side 2:         CuSh           Contact Plating, Side 2:         TPU           Contact Bearer Material, Side 2:         TPU           Contact Bearer Material, Side 2:         TPU           Contact Bearer Color, Side 2:         U.9 4 HB           Molded Body Material, Side 2:         TPU           Molded Body Material, Side 2:         TPU           Molded Body Color, Side 2:         Trus           Flammability Class (Molded Body), Side 2:         Trus           Flammability Class (Molded Body), Side 2:         U.9 4 HB           Attachment Material, Side 2:         CuZn	Attachment Type, Side 2:	Coupling Nut
Contact Resistance, Side 2:         \$10 mOhm           Insulation Resistance, Side 2:         >10°9 Ohm           Mating Cycles, Side 2:         \$100           Ambient Temperature (Operation), Side 2*:         40°C - 90°C           Operating Temperature (UL), Side 2:         max. + 70°C           Protection Degree / IP Rating, Side 2**:         1965, IP67, IP69K           Design Standard, Side 2:         1EC 61076-2-104           Pollution Degree, Side 2:         3 acc. to DIN EN 60664-1 (VDE 0110-1)           Overvoltage Category, Side 2:         III acc. to DIN EN 60664-1 (VDE 0110-1)           Contact Base Material, Side 2:         Cula           Contact Baser Material, Side 2:         TPU           Contact Bearer Color, Side 2:         TPU           Molded Body Material, Side 2:         TPU           Molded Body Material, Side 2:         TPU           Molded Body Color, Side 2:         Truslucent           Molded Body Side 2:         Truslucent           Flammability Class (Molded Body), Side 2:         Truslucent           Flammability Class (Molded Body), Side 2:         U.9 4 HB           Attachment Material, Side 2:         CuZn	Number of Pins, Side 2:	3
Insulation Resistance, Side 2:         > 10°9 Ohm           Mating Cycles, Side 2:         ≤ 100           Ambient Temperature (Operation), Side 2:         -40°C - +90°C           Operating Temperature (UL), Side 2:         max. + 70°C           Protection Degree / IP Rating, Side 2**:         IP65, IP67, IP69K           Design Standard, Side 2:         IEC 61076-2-104           Pollution Degree, Side 2:         3 acc. to DIN EN 60664-1 (VDE 0110-1)           Overvoltage Category, Side 2:         III acc. to DIN EN 60664-1 (VDE 0110-1)           Contact Base Material, Side 2:         Cu/Au           Contact Bearer Material, Side 2:         TPU           Contact Bearer Color, Side 2:         TPU           Molded Body Material, Side 2:         TPU           Molded Body Material, Side 2:         TPU           Molded Body Color, Side 2:         Translucent           Flammability Class (Molded Body), Side 2:         Translucent           Flammability Class (Molded Body), Side 2:         U. 94 HB           Attachment Material, Side 2:         U. 94 HB	Coding, Side 2:	A
Mating Cycles, Side 2: \$ 100  Ambient Temperature (Operation), Side 2*: \$ 40 °C - + 90 °C  Operating Temperature (UL), Side 2: max + 70 °C  Protection Degree / IP Rating, Side 2**: IP65, IP67, IP69K  Design Standard, Side 2: IEC 61076-2-104  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: Ill acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuSn  Contact Plating, Side 2: CuI/Au  Contact Bearer Material, Side 2: TPU  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: TPU  Molded Body Material, Side 2: TPU  Molded Body Material, Side 2: Trou  Molded Body Color, Side 2: Translucent  Flammability Class (Molded Body), Side 2: UL 94 HB  Attachment Material, Side 2: UL 94 HB  Attachment Material, Side 2: CuZn	Contact Resistance, Side 2:	≤ 10 mOhm
Ambient Temperature (Operation), Side 2: -40 °C -+ 90 °C Operating Temperature (UL), Side 2: max. +70 °C Protection Degree / IP Rating, Side 2*: IP65, IP67, IP69K Design Standard, Side 2: IEC 61076-2-104 Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Overvoltage Category, Side 2: Ill acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: CuSn Contact Plating, Side 2: Cu/Au Contact Bearer Material, Side 2: TPU Contact Bearer Material, Side 2: Orange Flammability Class (Contact Bearer), Side UL 94 HB Molded Body Material, Side 2: TPU Molded Body Color, Side 2: Translucent Flammability Class (Molded Body), Side 2: UL 94 HB Attachment Material, Side 2: UZD	Insulation Resistance, Side 2:	> 10^9 Ohm
Operating Temperature (UL), Side 2: max. + 70 °C  Protection Degree / IP Rating, Side 2**: IP65, IP67, IP69K  Design Standard, Side 2: IEC 61076-2-104  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: III acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuSn  Contact Baser Material, Side 2: CuI/Au  Contact Bearer Material, Side 2: TPU  Contact Bearer Color, Side 2: TPU  Contact Bearer Color, Side 2: TPU  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent  Flammability Class (Molded Body), Side 2: Translucent  Flammability Class (Molded Body), Side 2: UL 94 HB  Attachment Material, Side 2: CuZn	Mating Cycles, Side 2:	≤ 100
Protection Degree / IP Rating, Side 2**: P65, IP67, IP69K  Design Standard, Side 2: IEC 61076-2-104  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: IIII acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuSn  Contact Plating, Side 2: Cu/Au  Contact Bearer Material, Side 2: TPU  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: UL 94 HB  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent  Flammability Class (Molded Body), Side 2: UL 94 HB  Attachment Material, Side 2: UL 94 HB  Attachment Material, Side 2: UL 94 HB	Ambient Temperature (Operation), Side 2*:	-40 °C - +90 °C
Design Standard, Side 2: IEC 61076-2-104  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: Ill acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuSn  Contact Plating, Side 2: Cu/Au  Contact Bearer Material, Side 2: TPU  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: TPU  Molded Body Material, Side 2: TPU  Molded Body Material, Side 2: TPU  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: TPU  Molded Body Color, Side 2: TPU  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent  Flammability Class (Molded Body), Side 2: Translucent  Flammability Class (Molded Body), Side 2: UL 94 HB  Attachment Material, Side 2: CuZn	Operating Temperature (UL), Side 2:	max. + 70 °C
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Overvoltage Category, Side 2: III acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuSn  Contact Plating, Side 2: Cu/Au  Contact Bearer Material, Side 2: TPU  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: TPU  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: TPU  Molded Body Color, Side 2: TPU  Molded Body Color, Side 2: Trushucent  Flammability Class (Molded Body), Side 2: Translucent  Flammability Class (Molded Body), Side 2: UL 94 HB  Attachment Material, Side 2: CuZn	Design Standard, Side 2:	IEC 61076-2-104
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Contact Plating, Side 2: Cu/Au  Contact Bearer Material, Side 2: TPU  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: UL 94 HB  Molded Body Material, Side 2: Translucent  Flammability Class (Molded Body), Side 2: Translucent  Flammability Class (Molded Body), Side 2: CuZn	Overvoltage Category, Side 2:	III acc. to DIN EN 60664-1 (VDE 0110-1)
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Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: UL 94 HB  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent  Flammability Class (Molded Body), Side 2: UL 94 HB  Attachment Material, Side 2: CuZn	Contact Plating, Side 2:	Cu/Au
Flammability Class (Contact Bearer), Side 2: TPU  Molded Body Material, Side 2: Translucent  Flammability Class (Molded Body), Side 2: Translucent  Flammability Class (Molded Body), Side 2: UL 94 HB  Attachment Material, Side 2: CuZn	Contact Bearer Material, Side 2:	TPU
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Molded Body Color, Side 2: Translucent Flammability Class (Molded Body), Side 2: UL 94 HB Attachment Material, Side 2: CuZn	Flammability Class (Contact Bearer), Side 2:	UL 94 HB
Flammability Class (Molded Body), Side 2: UL 94 HB  Attachment Material, Side 2: CuZn	Molded Body Material, Side 2:	TPU
Attachment Material, Side 2: CuZn	Molded Body Color, Side 2:	Translucent
	Flammability Class (Molded Body), Side 2:	UL 94 HB
Attachment Plating, Side 2: Nickel-plated	Attachment Material, Side 2:	CuZn
	Attachment Plating, Side 2:	Nickel-plated
O-Ring Material, Side 2: FKM, green	O-Ring Material, Side 2:	FKM, green

Function Indicator, Side 2:	2xLEDs (PNP)
Fastening Torque (Attachment), Side 2:	M 8x1: 30 Ncm, hand-tight

## **Approvals**

UL-File:	E315587
UL:	UL 2238; cURus

## Safety & Environmental Compliance

RoHS Compliant: yes	
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#### Resistances

Halogenfree:	DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1
Oil Resistance:	Good chemical and oil resistance

#### **Notes**

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

#### Variants

Item #	Item Description	Cable Length
13464	RSMWV 3-RKMWV/LED A 3-224/0,3 M	0.3 m
11022	RSMWV 3-RKMWV/LED A 3-224/0,6 M	0.6 m

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