



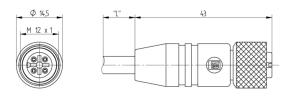
# Product: RKTS 4-288

M12 Standard Sensor/Actuator Single-Ended Cordset: Female, straight, 4-pin, A-coded, shielded, orange body, 50 V AC / 60 V DC, 4 A; PUR black cable, 4-wires, 0.34 mm<sup>2</sup>

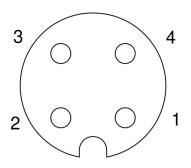
## **Product Description**

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### **Technical Drawing**







### **Technical Specifications**

#### Face View



#### **Technical Data**

Product Family:Sensor / Actuator ConnectorsProduct Sub Family:M2 StandardBrand:Lunberg AutomationConnector Type:Ordest single endedType of Contact / GenderFamilyStandardStandardNumber of Prise:AAASchieldSchieldStated manageSchieldStated manageSchi		
Brand:Lumberg AutomationConnector Type:Grodset, single endedType of Contact / GenderFemaleConnector Design:BraigNumber of Pins:4Coding:AOding:NieledShielding:NieledShielding:Ourpins NuAttachment Type:00Rated Voltage (UL):Si VACRated Impulse Voltage:1.5 kVOperating Voltage:0.4 CA (0.5 VAC)Rated Ungense:0.5 VACRated Ungense:0.5 VACRated Ungense:0.5 VACRated Ungense:0.5 VACRated Ungense:0.5 VACState State Stat	Product Family:	Sensor / Actuator Connectors
Connect Type:     Oddset, single ended       Type of Contact / Gender:     Female       Connector Design:     Straight       Number of Pins:     4       Coding:     A       Sheidding:     Sheided       Attachment Type:     Ouping Nut       Rated Voltage (UL):     Si VAC       Rated Impulse Voltage:     1.5 kV       Operating Voltage:     Si VAC/GOV DEC       Rated Current*:     4.4	Product Sub Family:	M12 Standard
Type of Contact / Gender:     Fenale       Connector Design:     Straight       Number of Pins:     4       Coding:     A       Shelding:     Number of Pins:       Attachment Type:     Number of Pins:       Shelding:     Straight       Shelding:     Support Straight       Read Voltage:     Support Straight       Stack Type:     Support Straight       Stack Type:     Support Straight       Read Voltage:     Support Straight       Support Straight     Support Straight       Stack Type:     Support Straight       Stack Type:     Support Straight       Stack Type:     Support Straight       Stack Type:     Support Straight       Support Straight     Support Straight	Brand:	Lumberg Automation
Connector Design:KnightNumber of Pins:4Coding:ACoding:AShelding:SheldedSheldong Design SupportSoulding SupportRated Notage:Si VACRated Inpulse Voltage:Si VACSpearing Voltage:Si VACSheldong SupportSi VACRated Purport:Si VACSpearing Voltage:Si VACSpearing Voltage:Si VACSpearing Voltage:Si VACSpearing Voltage:A	Connector Type:	Cordset, single ended
Number of Pins:4Coding:AShielding:ShieldedShielding:ShieldedAttachment Type:Coupling NutRated Voltage:60 VRated Voltage:250 V ACRated Impulse Voltage:1.5 kVOperating Voltage:50 V ACAttachment Type:60 VAttachment Type:50 V ACRated Impulse Voltage:1.5 kVAttachment Type:60 VAttachment Type:50 V ACAttachment Type:60 VAttachment Type:60 V <t< td=""><td>Type of Contact / Gender:</td><td>Female</td></t<>	Type of Contact / Gender:	Female
Coding:AShidding:ShidedaAtachment Type:Couping NutRaded Voltage:60Radel Voltage:S0 V ACRated Impulse Voltage:1.5 kVOperating Voltage:50 V ACAtachment Type:60 AAtachment Type:1.5 kVAtachment Type:60 AAtachment Type:60 AAtachment Type:1.5 kVAtachment Type:60 AAtachment Type:60 A <tr< td=""><td>Connector Design:</td><td>Straight</td></tr<>	Connector Design:	Straight
Shielding:ShieldeiAttachment Type:Couping NutRated Voltage:60 VRated Voltage (UL):250 VACRated Impulse Voltage:1.5 kVOperating Voltage:50 VAC / 60 V DCRated Current*:4A	Number of Pins:	4
Attachment Type:Coupling NutRated Voltage:60 VRated Voltage (UL):250 V ACRated Impulse Voltage:1.5 kVOperating Voltage:50 V AC / 60 V DCRated Current*:4 A	Coding:	A
Rated Voltage: 60 V   Rated Voltage (UL): 250 V AC   Rated Impulse Voltage: 1.5 kV   Operating Voltage: 50 V AC / 60 V DC   Rated Current*: 4 A	Shielding:	Shielded
Rated Voltage (UL): 250 V AC   Rated Impulse Voltage: 1.5 kV   Operating Voltage: 50 V AC / 60 V DC   Rated Current*: 4 A	Attachment Type:	Coupling Nut
Rated Impulse Voltage: 1.5 kV   Operating Voltage: 50 V AC / 60 V DC   Rated Current*: 4 A	Rated Voltage:	60 V
Operating Voltage: 50 V AC / 60 V DC   Rated Current*: 4 A	Rated Voltage (UL):	250 V AC
Rated Current*: 4 A	Rated Impulse Voltage:	1.5 kV
	Operating Voltage:	50 V AC / 60 V DC
Rated Current (UL)*: 4 A	Rated Current*:	4 A
	Rated Current (UL)*:	4 A

Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 90 °C
Operating Temperature (UL):	max. + 50 °C
Protection Degree / IP Rating**:	IP65, IP67, IP69K
Design Standard:	IEC 61076-2-101
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)

#### **Materials**

Contact Base Material:	CuSn
Contact Plating:	Cu/Au
Contact Bearer Material:	PA
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 V-0
Molded Body Material:	TPU
Molded Body Color:	Orange
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	CuZn
Attachment Plating:	Nickel-plated
Shielding Material:	CuZn, tin-plated
O-Ring Material:	FKM, green

### **Additional Technical Data**

Fastening Torque (Attachment):

M 12x1: (50-60) Ncm, hand-tight

#### Cable Data

Cable Number:	288	
Conductor Size:	0.34 mm <sup>2</sup>	
Number of Wires:	4	
Minimal Bending Radius (Fixed Inst):	>5xD	
Minimal Bending Radius (Flexible Inst):	> 10 x D	
Cycles (Bending):	>5M	
Cycles (Torsion):	> 1 M @ ± 180 °/1 m	
Conductor material:	Cu	
Cable Jacket Material:	PUR	
Cable Jacket Color:	black	
Cable Diameter D:	ø 5.50 ± 0.20 mm	
Wire Insulation Material:	PP	
Insulated Wire Diameter:	ø 1.30 mm	
Overall Shield (Cable):	Mesh wire	
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 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2	
Cable Characteristics:	Free of lacquer wetting disturbing substances; Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Coldness flexibility	

### 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
Oil Resistance:	Good chemical and oil resistance

#### Notes

Note Derating:	Notice derating	
Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.	
Note:	Do not connect or disconnect under load.	

Variants

Item #	Item Description	Cable Length	Rated Current
1907	RKTS 4-288/35 M	35 m	4 A
4429	RKTS 4-288/1,5 M	1.5 m	4 A
5528	RKTS 4-288/0,3 M	0.3 m	4 A
5529	RKTS 4-288/0,5 M	0.5 m	4 A
49202	RKTS 4-288/10 M	10 m	4 A
49203	RKTS 4-288/2 M	2 m	4 A
49205	RKTS 4-288/5 M	5 m	4 A
65773	RKTS 4-288/30 M	30 m	4 A
65828	RKTS 4-288/25 M	25 m	4 A
92031	RKTS 4-288/6 M	6 m	4 A
103195	RKTS 4-288/3 M	3 m	4 A
934636936	RKTS 4-288/1 M	1 m	4 A
934637108	RKTS 4-288/50 M	50 m	4 A
934637552	RKTS 4-288/40 M	40 m	4 A
49314	RKTS 4-288/15 M	15 m	4 A
60434	RKTS 4-288/20 M	20 m	4 A
21637	RKTS 4-288/12 M	12 m	4 A
21638	RKTS 4-288/18 M	18 m	4 A
8264	RKTS 4-288/7,5 M	7.5 m	4 A

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