



■ Connectivity Solutions

Profinet



Artikel-Nr.: 192013.0030
M12 male 4pol. D coded
RJ45 male 4pol.
PUR c-track compatible



Artikel-Nr.: 490212
M12 male 4pol.
D coded
Spring terminal



Artikel-Nr.: 192015.0030
RJ45 male 4pol.
RJ45 male 4pol.
PUR c-track compatible



Artikel-Nr.: 490213
M12 female 4pol.
D coded
Spring terminal



Artikel-Nr.: 475400.0030
M12 male 4pol. D coded
M12 male 4pol. D coded
PUR c-track compatible



Artikel-Nr.: 490214
M12 male 4pol.
D coded
Spring terminal



Artikel-Nr.: 475500.0200
Panel socket
M12 male 4pol. D coded
PUR



Artikel-Nr.: 490215
M12 female 4pol.
D coded
Spring terminal



Artikel-Nr.: 490177
RJ45, shielded
Full metal housing
Profinet



Artikel-Nr.: 492075
RJ45 panel connector
female/female 1:1
Cat 5e



Artikel-Nr.: 490178
RJ45, shielded
Full metal housing
Profinet

Technical data sheet · Network cables PROFINET

Actuator sensor interface



Identification	Type	STG4-RJ45/STG4-M12/PN PUR 0,3M
	Part-No.	192013.0030
Description	Male RJ45 straight to female M12 straight with PUR cable, Cat 5e self-locking screwed connection c-track compatible, halogen free	
Technical data		
Number of conductors/cross-section	(2×2×AWG22/7)	
Form male 1	RJ45 male straight	
Form male 2	M 12 male straight	
Pole number	4	
Category	Cat.5	
Number of conductors	4	
Cable diameter	6.5 mm	
Cable length	0.3 m	
Rated voltage U_N	DC 24 V	
Rated current	1.5 A	
Test voltage	1000 V	

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Part-No. 192013.0030

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Technical data sheet · Network cables PROFINET

Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Contact resistance	$< 20 \text{ m}\Omega$
Protection class	IP20
Coding	D
Shielding	360°
Temperature range connector	-25 °C ... 85 °C
Temperature range fixed	-40 °C ... +80 °C
Temperature range moving	-30 °C ... +70 °C
Minimum bending radius fixed	6×D
Minimum bending radius moving	12×D
Mounting	Breakaway torque 0.4 Nm

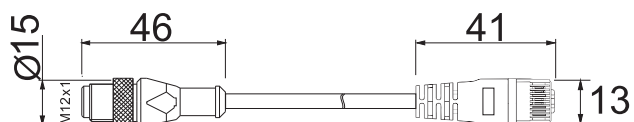
Construction

Number of conductors/cross-section	(2×2×AWG22/7)
Number of conductors	4
Conductor color	various
Conductor insulation	TPE-O
Jacket material	PUR
Jacket color	green RAL 6018

General

Housing material	TPU PA
Color of the housing	black
Contact material	CuSn, gold-plated
Thread material	Zinc die-casting, nickel-plated
Mounting	Breakaway torque 0.4 Nm
Weight	0.035 kg/piece
PU	1 piece
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU

Dimensions



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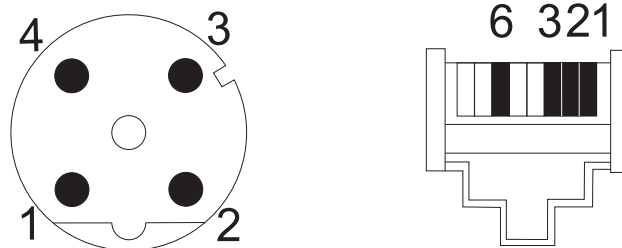
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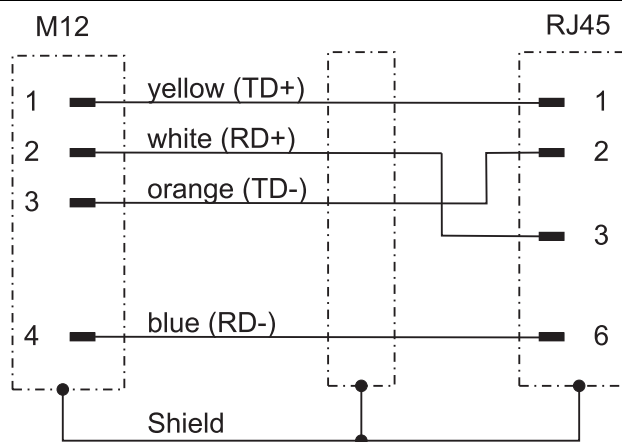
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Technical data sheet · Network cables PROFINET

PIN assignment



Circuit diagram



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Technical data sheet · Network cables PROFINET

Actuator sensor interface



Identification	Type	STG4-RJ45/STG4-RJ45/PN PUR 0,3M
	Part-No.	192015.0030
Description		
Male RJ45 straight to female RJ45 straight with PUR cable, Cat 5e c-track compatible, halogen free		
Technical data		
Number of conductors/cross-section	(2×2×AWG22/7)	
Form male 1	RJ45 male straight	
Form male 2	RJ45 male straight	
Pole number	4	
Category	Cat.5	
Number of conductors	4	
Cable diameter	6.5 mm	
Cable length	0.3 m	
Rated voltage U_N	DC 50 V	
Rated current	1.5 A	
Test voltage	1000 V	
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$	

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Technical data sheet · Network cables PROFINET

Contact resistance	< 20 mΩ
Protection class	IP20
Shielding	360°
Temperature range connector	-25 °C ... 85 °C
Temperature range fixed	-30 °C ... +80 °C
Temperature range moving	-30 °C ... +70 °C
Minimum bending radius fixed	6×D
Minimum bending radius moving	12×D

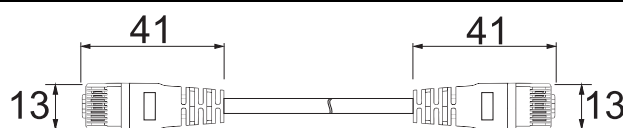
Construction

Number of conductors/cross-section	(2×2×AWG22/7)
Number of conductors	4
Conductor color	various
Conductor insulation	TPE-O
Jacket material	PUR
Jacket color	green RAL 6018

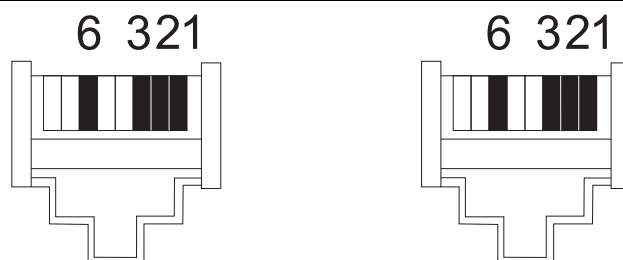
General

Housing material	PA
Color of the housing	black
Contact material	CuSn, gold-plated
Weight	0.035 kg/piece
PU	1 piece
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU

Dimensions



PIN assignment



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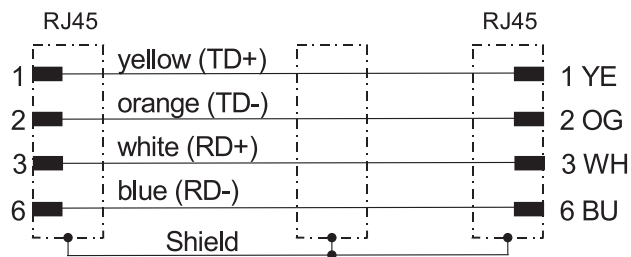
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SYSTEMATIC TECHNOLOGY

Technical data sheet · Network cables PROFINET

Circuit diagram



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SYSTEMATIC TECHNOLOGY



Identification	Type Part-No.	STG4-M12/STG4-M12/PN 0,3M PUR 475400.0030
Description	Male M12 straight on male M12 straight with PUR cable, shielded 360° self-locking screwed connection c-track compatible, halogen free	
Technical data		
Rated voltage U_N	AC/DC 24 V	
Rated voltage max.	30 V	
Rated current	4 A	
Pole number	4	
Cable length	0.3 m	
Coding	D	
Shielding	360°	
General		
Form male 1	M 12 male straight	
Form male 2	M 12 male straight	

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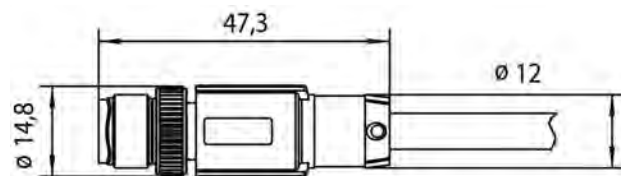
SYSTEMATIC TECHNOLOGY

Technical data sheet • Actuator sensor interface

Rated insulation voltage	250 V
Test voltage	1500 V
Degree of pollution	3
Contact resistance	< 5 mΩ
Flamability according to UL 94	V0
Protection class	IP65/67
Housing material	TPU
Color of the housing	black
Contact material	CuSn, gold-plated
Thread material	Zinc die-casting, nickel-plated
Mounting	Breakaway torque 0.4 Nm
Number of conductors/cross-section	1 × 4 × AWG 22/7
Number of conductors	4
Conductor color	various
Jacket material	PUR
Jacket color	green RAL 6018
Conductor insulation	PP
Cable diameter	6.5 mm
Bending radius	10 × D
Minimum bending radius moving	10×D
Storage temperature range	-30 °C ... +90 °C
Temperature range connector	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +80 °C
Temperature range moving	-30 °C ... +70 °C
Weight	0.060 kg/piece
PU	1 piece

C-track chain properties	Type B
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Dimensions



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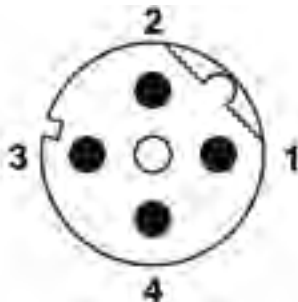
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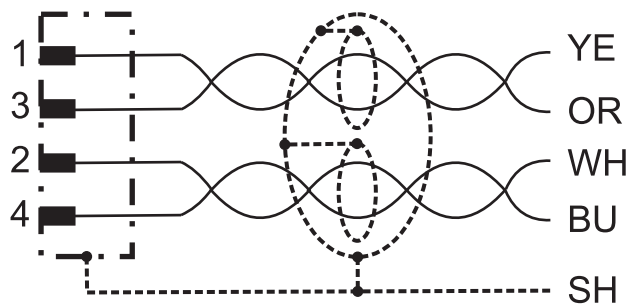
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PIN assignment



Circuit diagram



Logo



Accessories

Torque setting tool M 12:

Part-No. 490091 | DM-SET M12 | PU: 1 unit

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Part-No. 475400.0030

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SYSTEMATIC TECHNOLOGY



Identification	Type	KUGE4-M12/PN 2M PUR
	Part-No.	475500.0200
Description	M12 panel connectors using PG9 thread for rear panel installation, open end Female - D coded (Ethernet Cat. 5e) shielded	
Technical data		
Rated voltage U_N	AC/DC 24 V	
Rated voltage max.	30 V	
Rated current	4 A	
Pole number	4	
Cable length	2.0 m	
Coding	D	
Shielding	360°	
General		
Form male 1	M 12 female	
Rated insulation voltage	250 V	
Test voltage	1500 V	
Degree of pollution	3	
Insulation resistance	> 1000 MΩ	

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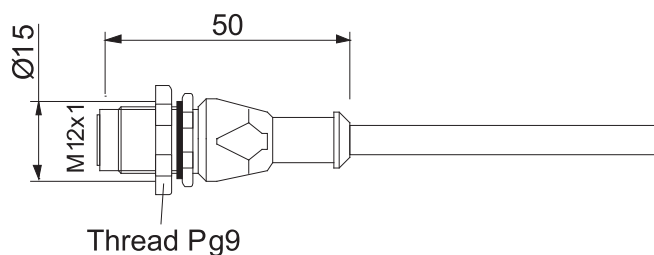
SYSTEMATIC TECHNOLOGY

Technical data sheet • Actuator sensor interface

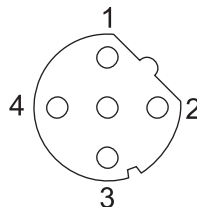
Contact resistance	< 5 mΩ
Protection class	IP65/67
Housing material	TPU
Contact material	CuSn, gold-plated
Thread material	Zinc die-casting, nickel-plated
Number of conductors/cross-section	1×4×AWG22/7
Jacket material	PUR
Jacket color	green RAL 6018
Conductor insulation	PP
Cable diameter	6.5 mm
Bending radius	10 × D
Storage temperature range	-40 °C ... +90 °C
Temperature range connector	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +80 °C
Temperature range moving	-30 °C ... +70 °C
Weight	0.140 kg/piece
PU	1 piece

C-track chain properties Type B

Dimensions



PIN assignment



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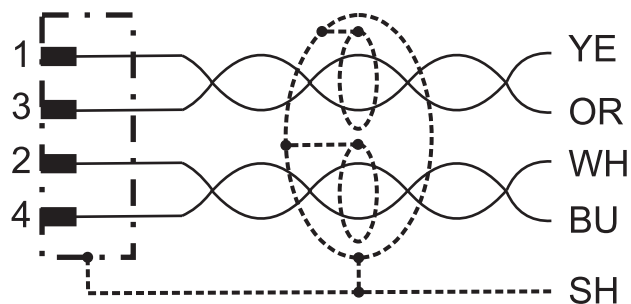
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SYSTEMATIC TECHNOLOGY

Circuit diagram



Logo



Accessories

Torque setting tool M 12:

Part-No. 490091 | DM-SET M12 | PU: 1 unit

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SYSTEMATIC TECHNOLOGY



Identification	Type	RJ45-MS 4pol. PROFINET
	Part-No.	490177
Description	Industrial connector RJ45 solid metal housing, quick-connect technology AWG 27–22 suitable pour Profinet	
Technical data		
Rated voltage U_N	30 V	
Rated current	≤ 1 A per contact	
Pole number	4	
Transfer rate	100 Mbit/s	
Category	Cat.5e	
Shielding	shielded	
General		
Form male 1	RJ45 straight shielded	
Degree of pollution	1	
Insulation resistance	> 500 M Ω	
Contact resistance	< 20 m Ω	
Flamability according to UL 94	V0	

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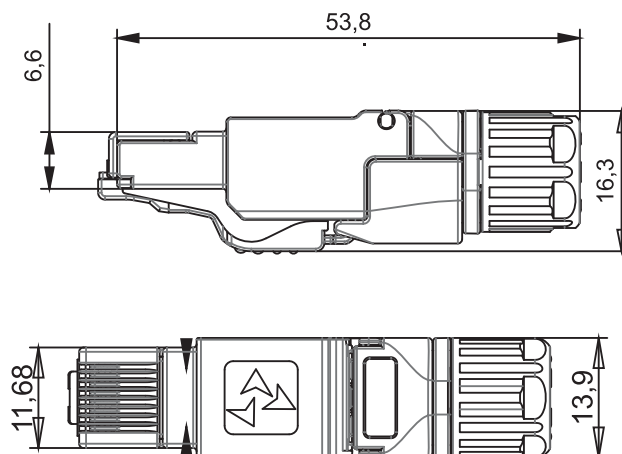
SYSTEMATIC TECHNOLOGY

Technical data sheet • Actuator sensor interface

Protection class	IP20
Housing material	Zinc die-casting
Color of the housing	silver
Color	silver
Cover	PBT black
Contact material	Spring steel gold-plated
Strand diameter	1 – 1.6 mm
Cable diameter	5.5 – 10 mm
Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Dimensions (w × h × d)	13.9 × 16.3 × 53.8 mm
Mechanical service life	>750 insertion cycles
Cross-section AWG	AWG 24/1-22/1, AWG 27/7-22/7, AWG 24/19-22/19
Weight	0.025 kg/piece
Connection device	Push-through contacts
Approvals	cULus (E326112)
Standards	IEC 61784-5-3
PU	1 piece

Comments	Suitable for Profinet, SERCOS3, Ethercat, Power over Ethernet+ (PoE+IEEE 802.3at) Suitable cables, see overview assignment Ethernet cables to connectors
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Dimensions



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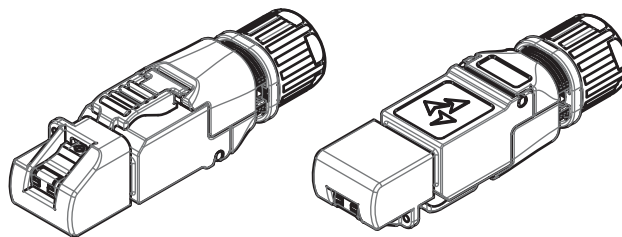
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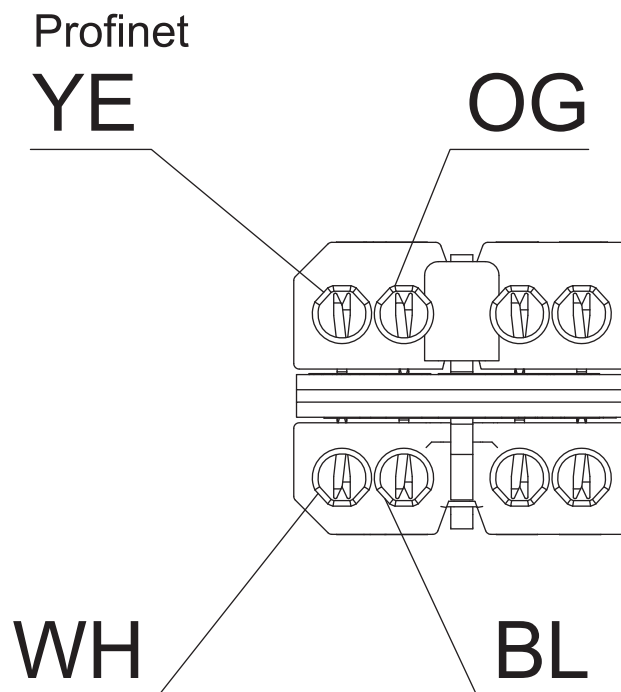


SYSTEMATIC TECHNOLOGY

Mounting diagram



Connection assignment



Logo



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RJ45 connector



Identification	Type	RJ45-MR 4pol. PROFINET
	Part-No.	490178
Description	Industrial connector RJ45, angled solid metal housing, quick-connect technology AWG 27–22 suitable pour Profinet	
Technical data		
Rated voltage U_N	30 V	
Rated current	≤ 1 A per contact	
Pole number	4	
Transfer rate	100 Mbit/s	
Category	Cat.5e	
Shielding	shielded	
General		
Form male 1	RJ45 angle connector shielded	
Degree of pollution	1	
Insulation resistance	> 500 M Ω	
Contact resistance	< 20 m Ω	
Flamability according to UL 94	V0	

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SYSTEMATIC TECHNOLOGY

Technical data sheet • Actuator sensor interface

Protection class	IP20
Housing material	Zinc die-casting
Color of the housing	silver
Cover	PBT black
Contact material	Spring steel gold-plated
Strand diameter	1 – 1.6 mm
Cable diameter	5.5 – 10 mm
Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Dimensions (w × h × d)	13.9 × 38.0 × 45.7 mm
Mechanical service life	>750 insertion cycles
Cross-section AWG	AWG 24/1-22/1, AWG 27/7-22/7, AWG 24/19-22/19
Weight	0.025 kg/piece
Connection device	Push-through contacts
Approvals	cULus (E326112)
Standards	IEC 61784-5-3
PU	1 piece

Comments	Suitable for Profinet, SERCOS3, Ethercat, Power over Ethernet+ (PoE+IEEE 802.3at) Suitable cables, see overview assignment Ethernet cables to connectors
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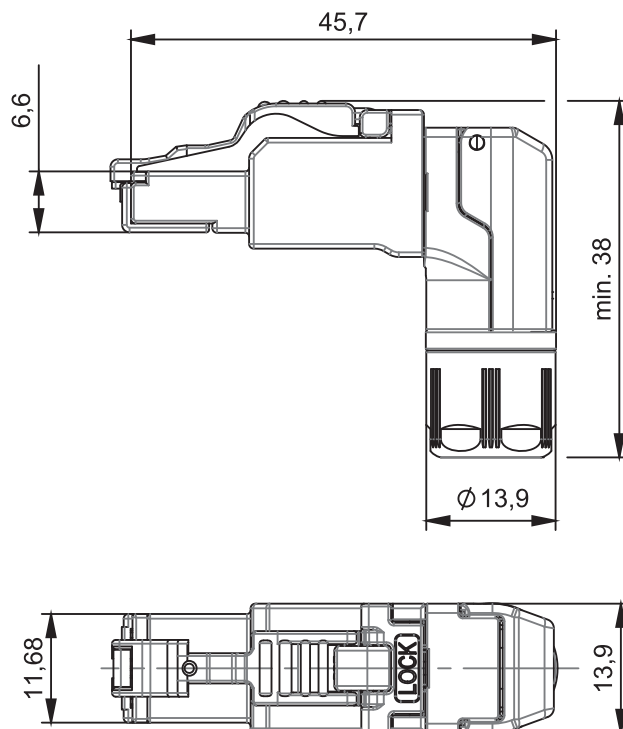
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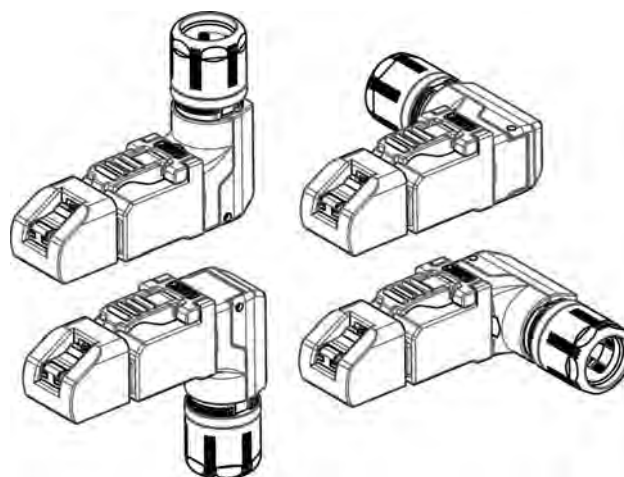


SYSTEMATIC TECHNOLOGY

Dimensions



Mounting diagram



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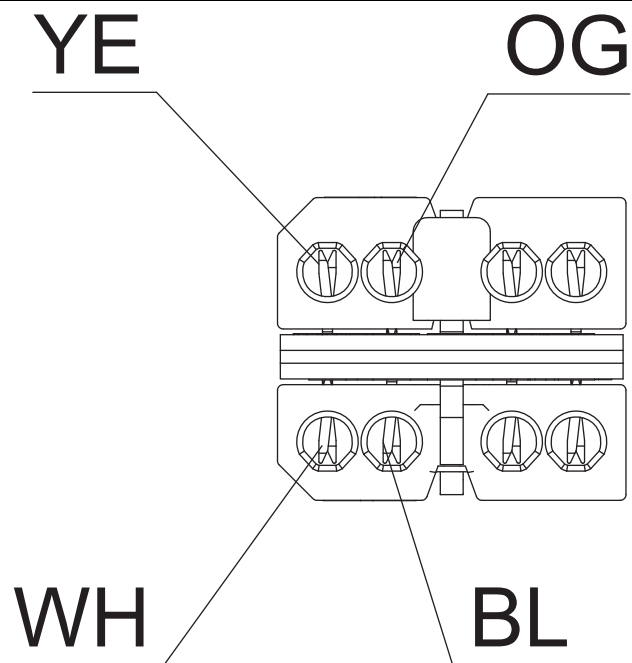
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Connection assignment



Logo



21.03.2018 – Subject to technical modification

Part-No. 490178

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Technical data sheet · Actuator sensor interface

M12 - connector



Identification	Type	STGK4-M12 (C)-D FK
	Part-No.	490212
Description		
Field wireable connector, M12 straight, shielded, CAT5e (100 MBit/s) Male D-coded (Ethernet, Profinet, Sercos) Spring terminal: Push-in connection technology		
Technical data		
Rated voltage U _N	AC/DC 24 V	
Rated voltage max.	60 V	
Rated current	4 A	
Pole number	4	
Coding	D	
General		
Test voltage	1500 V	
Degree of pollution	3	
Insulation resistance	> 100 MΩ	
Contact resistance	< 5 mΩ	
Flamability according to UL 94	V0	
Protection class	IP65, IP67 inserted and tightened	
Housing material	Zinc die-casting, nickel-plated	

23.08.2019 – Subject to technical modification

Part-No. 490212

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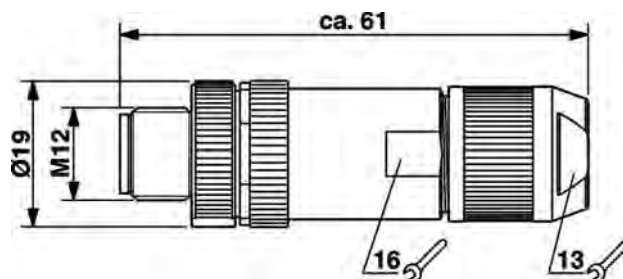
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Technical data sheet · Actuator sensor interface

Color of the housing	silver
Contact material	CuSn, gold-plated
Material knurled nut	Zinc die-casting, nickel-plated
Material sealing ring	NBR
Cable diameter	4 – 8 mm
Storage temperature range	-40 °C ... +85 °C
Temperature range connector	-40 °C ... +85 °C
Mechanical service life	>100 insertion cycles
Cross-section, metric	without ferrule: 0.14–0.75 mm ² with ferrule: 0,08–0,5 mm ²
Cross-section AWG	without ferrule: AWG26–AWG18 with ferrule: AWG28–AWG20
Tightening torque	M12-knurled nut: 0.4 Nm sleeve housing: 0.8 Nm pressure nut: 3 Nm
Weight	0.037 kg/piece
Connection type	Spring terminal Push-In
Approvals	cULus (E224249)
Standards	IEC 61076-2-101 EN 50155 (2001) vibration and shock
PU	1 piece

Dimensions



23.08.2019 – Subject to technical modification

Part-No. 490212

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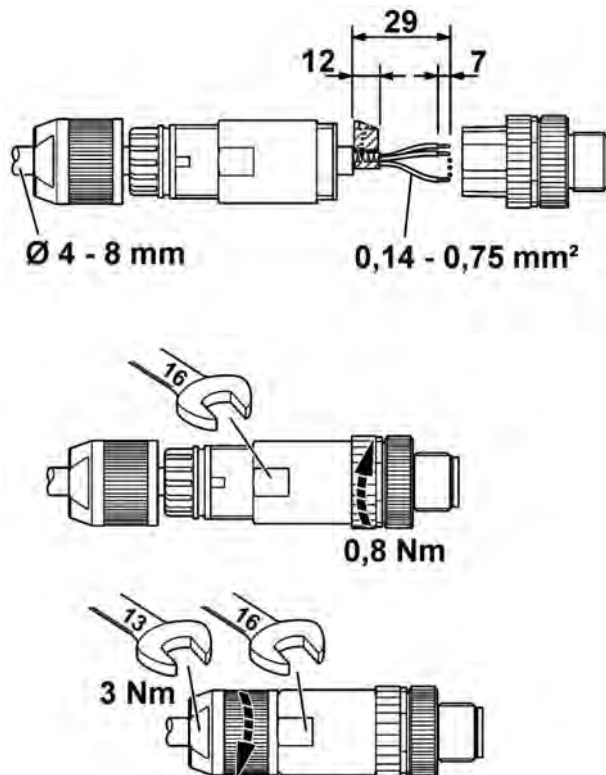
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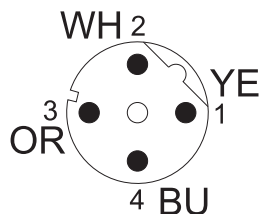
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Technical data sheet · Actuator sensor interface

Mounting diagram



Pin layout



Logo



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Technical data sheet · Actuator sensor interface

M12 - connector



Identification	Type	KUGK4-M12 (C)-D FK
	Part-No.	490213
Description		
	Field wireable connector, M12 straight, shielded, CAT5e (100 MBit/s) Female D-coded (Ethernet, Profinet, Sercos) Spring terminal: Push-in connection technology	
Technical data		
Rated voltage U _N	AC/DC 24 V	
Rated voltage max.	60 V	
Rated current	4 A	
Pole number	4	
Coding	D	
General		
Test voltage	1500 V	
Degree of pollution	3	
Insulation resistance	> 100 MΩ	
Contact resistance	< 5 mΩ	
Flamability according to UL 94	V0	
Protection class	IP65, IP67 inserted and tightened	
Housing material	Zinc die-casting, nickel-plated	

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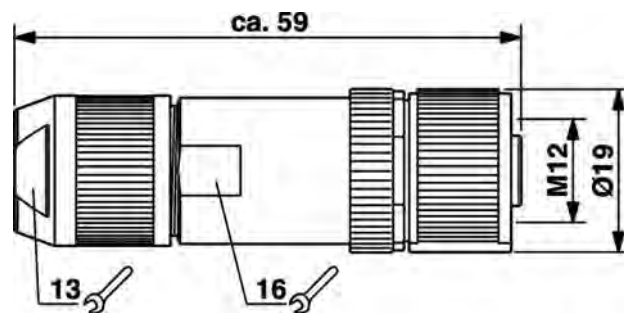
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Technical data sheet · Actuator sensor interface

Color of the housing	silver
Contact material	CuSn, gold-plated
Material knurled nut	Zinc die-casting, nickel-plated
Material sealing ring	NBR
Cable diameter	4 – 8 mm
Storage temperature range	-40 °C ... +85 °C
Temperature range connector	-40 °C ... +85 °C
Mechanical service life	>100 insertion cycles
Cross-section, metric	without ferrule: 0.14–0.75 mm ² with ferrule: 0,08–0,5 mm ²
Cross-section AWG	without ferrule: AWG26–AWG18 with ferrule: AWG28–AWG20
Tightening torque	M12-knurled nut: 0.4 Nm sleeve housing: 0.8 Nm pressure nut: 3 Nm
Weight	0.042 kg/piece
Connection type	Spring terminal Push-In
Approvals	cULus (E224249)
Standards	IEC 61076-2-101 EN 50155 (2001) vibration and shock
PU	1 piece

Dimensions



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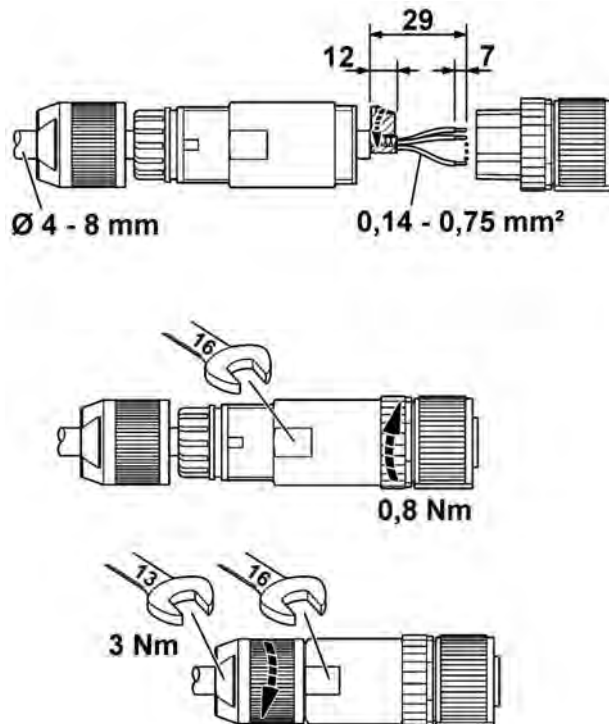
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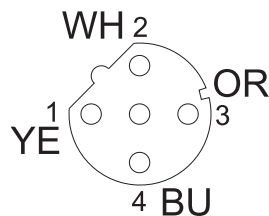
SYSTEMATIC TECHNOLOGY

Technical data sheet · Actuator sensor interface

Mounting diagram



Pin layout



Logo



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SYSTEMATIC TECHNOLOGY

Technical data sheet · Actuator sensor interface

M12 - connector



Identification	Type	STWK4-M12 (C)-D FK
	Part-No.	490214
Description		
Field wireable connector, M12 angled, shielded, CAT5e (100 MBit/s) Male D-coded (Ethernet, Profinet, Sercos) Spring terminal: Push-in connection technology		
Technical data		
Rated voltage U _N	AC/DC 24 V	
Rated voltage max.	60 V	
Rated current	4 A	
Pole number	4	
Coding	D	
General		
Test voltage	1500 V	
Degree of pollution	3	
Insulation resistance	> 100 MΩ	
Contact resistance	< 5 mΩ	
Flamability according to UL 94	V0	
Protection class	IP65, IP67 inserted and tightened	
Housing material	Zinc die-casting, nickel-plated	

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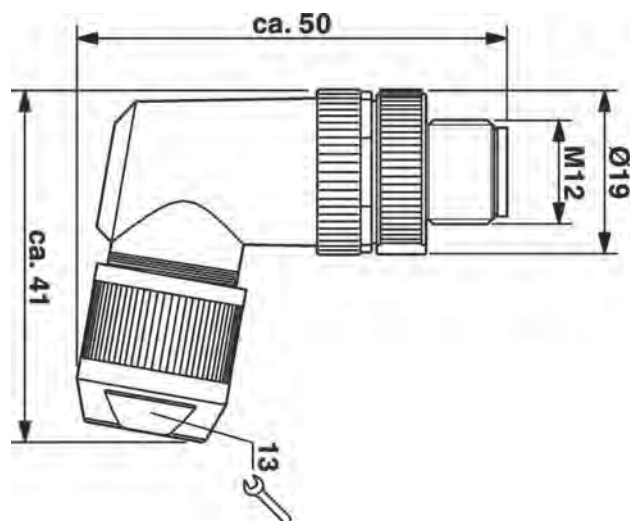
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Technical data sheet · Actuator sensor interface

Color of the housing	silver
Contact material	CuSn, gold-plated
Material knurled nut	Zinc die-casting, nickel-plated
Material sealing ring	NBR
Mounting	Coding can be rotated in the 45° increments
Cable diameter	4 – 8 mm
Storage temperature range	-40 °C ... +85 °C
Temperature range connector	-40 °C ... +85 °C
Mechanical service life	>100 insertion cycles
Cross-section, metric	without ferrule: 0.14–0.75 mm ² with ferrule: 0.08–0.5 mm ²
Cross-section AWG	without ferrule: AWG26–AWG18 with ferrule: AWG28–AWG20
Tightening torque	M12-knurled nut: 0.4 Nm sleeve housing: 0.8 Nm pressure nut: 3 Nm
Weight	0.039 kg/piece
Connection type	Spring terminal Push-In
Approvals	cULus (E224249)
Standards	IEC 61076-2-101 EN 50155 (2001) vibration and shock
PU	1 piece

Dimensions



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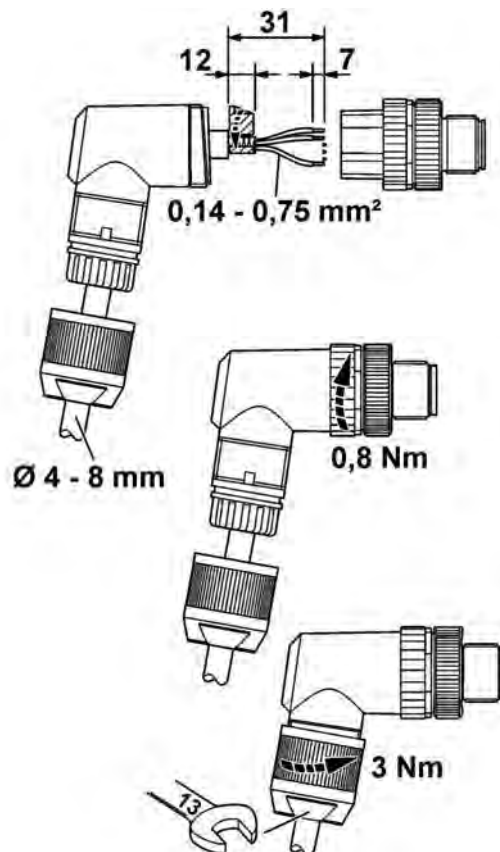
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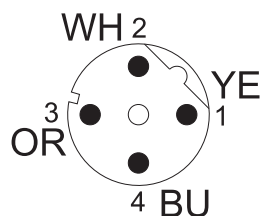


Technical data sheet · Actuator sensor interface

Mounting diagram



Pin layout



Logo



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Technical data sheet · Actuator sensor interface

M12 - connector



Identification	Type	KUWK4-M12 (C)-D FK
	Part-No.	490215
Description		
Field wireable connector, M12 angled, shielded, CAT5e (100 MBit/s) Female D-coded (Ethernet, Profinet, Sercos) Spring terminal: Push-in connection technology		
Technical data		
Rated voltage U _N	AC/DC 24 V	
Rated voltage max.	60 V	
Rated current	4 A	
Pole number	4	
Coding	D	
General		
Test voltage	1500 V	
Degree of pollution	3	
Insulation resistance	> 100 MΩ	
Contact resistance	< 5 mΩ	
Flamability according to UL 94	V0	
Protection class	IP65, IP67 inserted and tightened	
Housing material	Zinc die-casting, nickel-plated	

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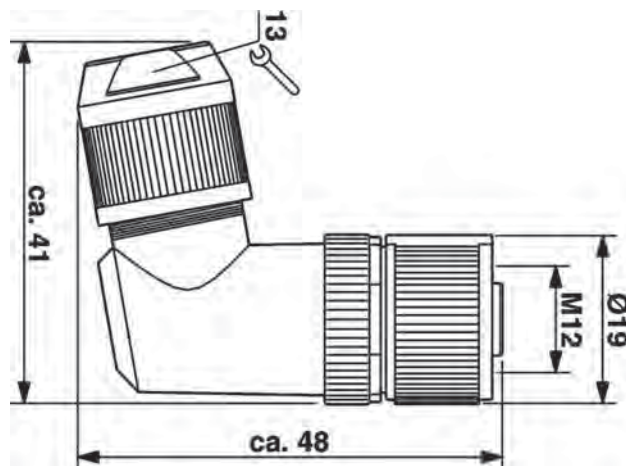
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Technical data sheet · Actuator sensor interface

Color of the housing	silver
Contact material	CuSn, gold-plated
Material knurled nut	Zinc die-casting, nickel-plated
Material sealing ring	NBR
Mounting	Coding can be rotated in the 45° increments
Cable diameter	4 – 8 mm
Storage temperature range	-40 °C ... +85 °C
Temperature range connector	-40 °C ... +85 °C
Mechanical service life	>100 insertion cycles
Cross-section, metric	without ferrule: 0.14–0.75 mm ² with ferrule: 0,08–0,5 mm ²
Cross-section AWG	without ferrule: AWG26–AWG18 with ferrule: AWG28–AWG20
Tightening torque	M12-knurled nut: 0.4 Nm sleeve housing: 0.8 Nm pressure nut: 3 Nm
Weight	0.044 kg/piece
Connection type	Spring terminal Push-In
Approvals	cULus (E224249)
Standards	IEC 61076-2-101 EN 50155 (2001) vibration and shock
PU	1 piece

Dimensions



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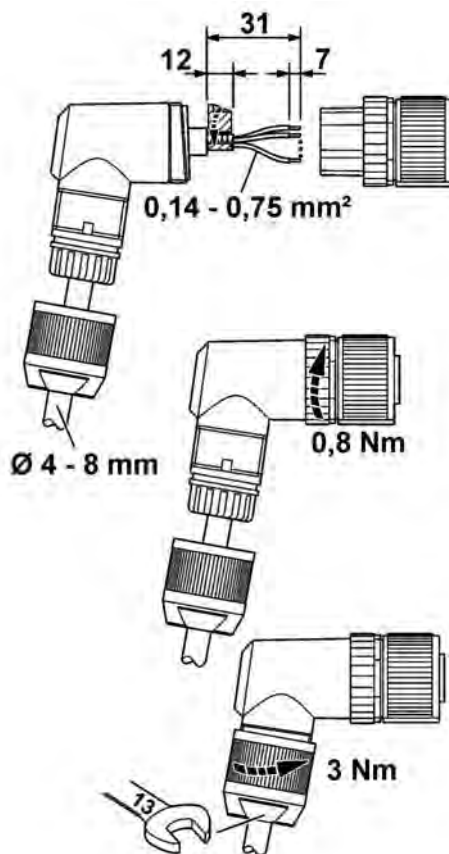
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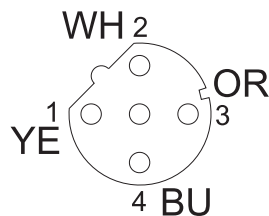
SYSTEMATIC TECHNOLOGY

Technical data sheet · Actuator sensor interface

Mounting diagram



Pin layout



Logo



23.08.2019 – Subject to technical modification

Part-No. 490215

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Technical data sheet · Actuator sensor interface

RJ45 panel connector



Identification	Type	RJ45 F/F 8/8 Cat.5e
	Part-No.	492075
Description		
	RJ45 panel connector for front installation 22.5 mm female/female 1:1 Cat 5e	
Technical data		
Rated voltage U _N	AC 24 V	
Rated voltage max.	50 V	
Rated current	1.5 A	
Pole number	8	
Transfer rate	100 MHz	
Category	Cat.5e	
Contact type	1 : 1	
Shielding	connected through	
General		
Form male 1	RJ45	
Degree of pollution	3	
Insulation resistance	> 100 MΩ	
Contact resistance	< 30 mΩ	

17.05.2019 – Subject to technical modification

Part-No. 492075

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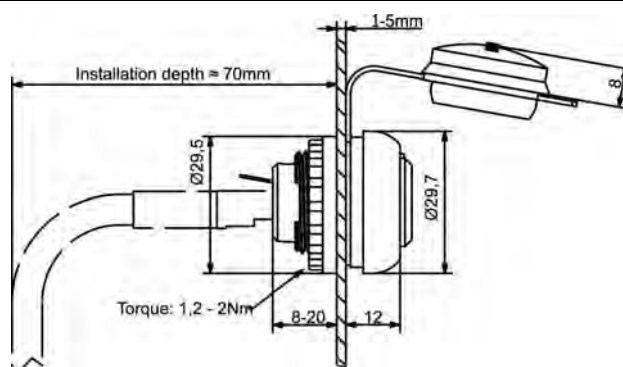
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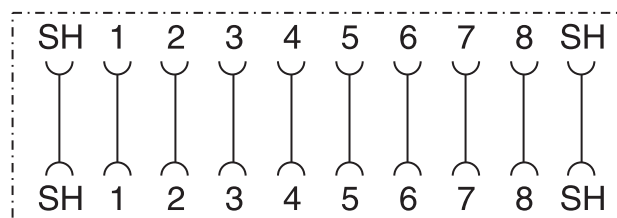
Technical data sheet · Actuator sensor interface

Flamability according to UL 94	V0
Protection class	IP65 and NEMA UL Type 12 in closed and IP20 in inserted condition
Housing material	PA PBT
Cover	TPU
Contact material	CuSn, gold-plated
Mounting	Front installation
Installation depth	70 mm
Number of conductors/cross-section	8×2
Operation temperature range	-25 °C ... +70 °C
Storage temperature range	-25 °C ... +80 °C
Temperature range connector	-25 °C ... +70 °C
Dimensions (Ø×d)	29.5 × 29 mm
Mechanical service life	>750 insertion cycles
Weight	0.016 kg/piece
PU	1 piece

Dimensions



Circuit diagram



17.05.2019 – Subject to technical modification

Part-No. 492075

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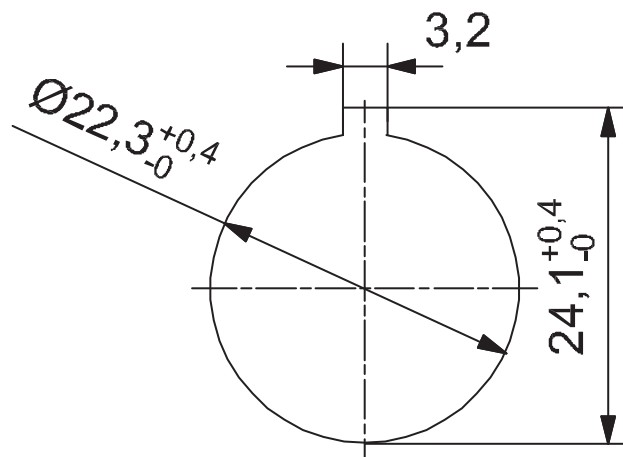
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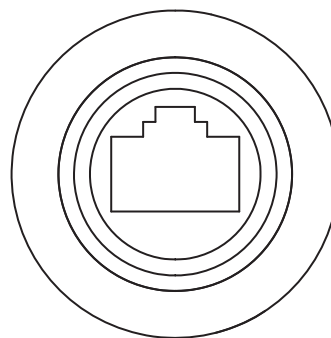
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Technical data sheet · Actuator sensor interface

Mounting diagram



front view:



17.05.2019 – Subject to technical modification

Part-No. 492075

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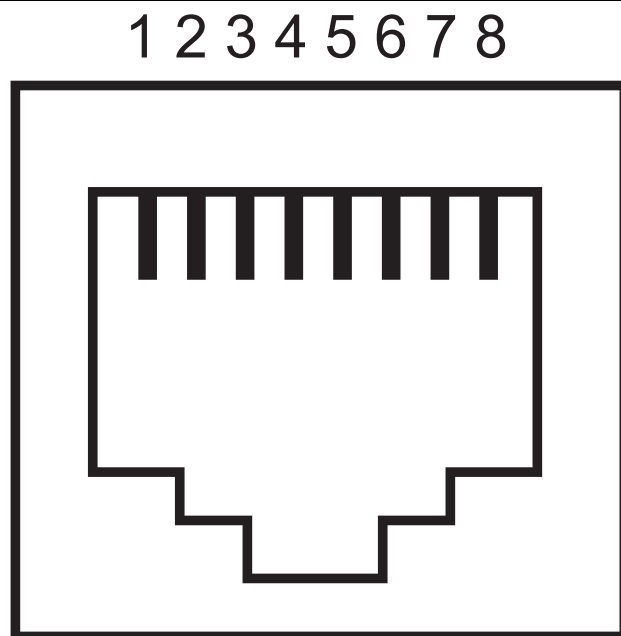
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Technical data sheet · Actuator sensor interface

Pin layout



Accessories

Included in the delivery:
captive safety cap

17.05.2019 – Subject to technical modification

Part-No. 492075

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