

Connectors

The wide range of connectors available for DC, AC und AC/DC allows for us in all areas of automation.

- 6.1.2** DC connectors
M5 connection (S 26),
M8 connection (S 49)
- 6.1.4** DC connectors
M8 connection
(S 49, S 75),
DC connectors
for user assembly
M8 connection (S 49)
- 6.1.5** DC connectors
for user assembly
M8 connection (S 49)
- 6.1.6** DC connectors
for user assembly
M8 connection
(S 49, S 75)
- 6.1.8** DC connection cables
M8 connection
(S 49, S 75)
- 6.1.10** DC connectors
M12 connection (S 4)
- 6.1.13** DC connectors
M12 connection
- 6.1.14** DC connection cables
M12 connection (S 4)
- 6.1.16** DC connectors
for user assembly
M12 connection (S 4)
- 6.1.18** AC/DC connectors
for multiple and single
position switches
M12 connection
- 6.1.19** AC/DC connectors
for multiple position
switches
- 6.1.20** AC/DC connectors
M12 connection (S 27)

The use of connector-type sensors (as opposed to cable connection) has gained in importance over recent years. Ease of handling and high machine uptime are the driving factors here. This requires absolutely reliable products. In line with the various sensor form factors available, Balluff offers a wide range of high-quality connectors.

The comprehensive line of connectors for DC, AC and AC/DC enables use in every area of automation.

The basic line includes not only connectors and connector cables, but also connectors for user-assembly. Balluff cables are ideal for industrial applications in any situation and are dragchain-compatible, halogen-free and high-temperature resistant to meet any requirement.

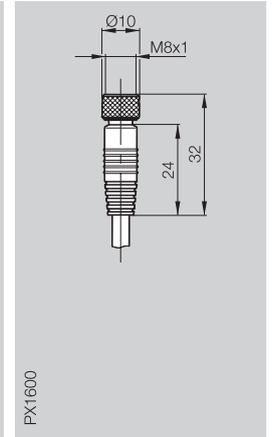
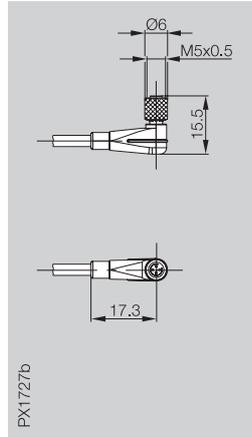
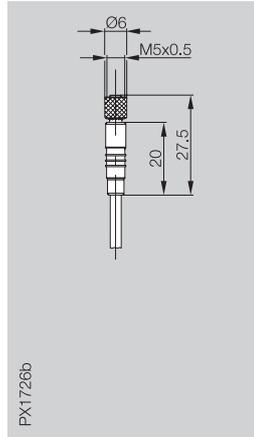
Accessories

DC connectors
M5 connection (S 26),
M8 connection (S 49)

M5

M8

Connector Type	BKS-B 25 straight female	BKS-B 26 angle female		BKS-B 48 straight female	
Application	S 26 sensors	S 26 sensors		S 49 sensors	



no LED, NO	BKS-B 25-1-PU-__	BKS-B 26-1-PU-__		BKS-B 48-1-__	
no LED, NC or NO					
no LED, complementary	BKS-B 25-3-PU-__	BKS-B 26-3-PU-__			
with LED, NC or NO PNP					
with LED, NC or NO NPN					

Manufacturer	Balluff	Balluff		Balluff	
Supply voltage U _B	10...30 V DC	10...30 V DC		10...30 V DC	
Cable	molded-on PUR	molded-on PUR		molded-on PVC/PUR	
No. of wires × cross-section	3×0.14 mm ² /4×0.14 mm ²	3×0.14 mm ² /4×0.14 mm ²		3×0.25 mm ²	
Degree of protection per IEC 60529	IP 67	IP 67		IP 67	
Ambient temperature range T _a	-25...+85 °C	-25...+85 °C		-20...+85 °C	

View of female side					
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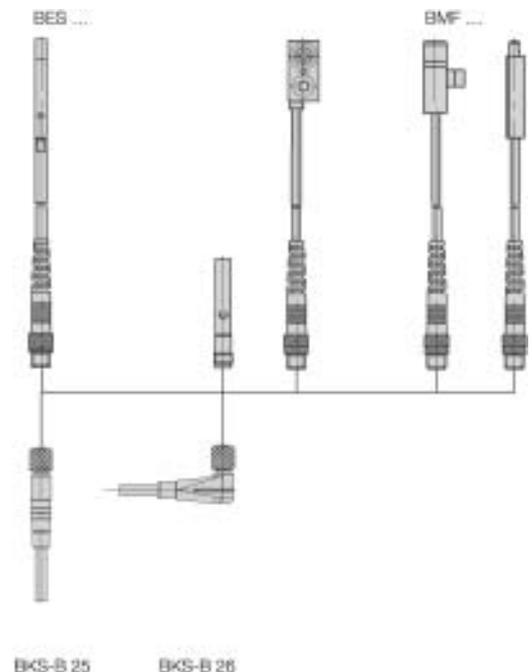
Please append cable material and length to ordering code!
PVC, standard length 3 m or 5 m = 03 or 05
PUR, standard length 3 m or 5 m = PU-03 or PU-05
Other cable properties on request.

Ordering examples

PVC, length 3 m = BKS-B 48-1-03
PUR, length 3 m = BKS-B 48-1-PU-03

Sensors with connector ordering code endings S 26

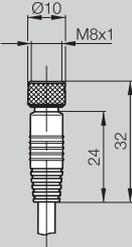
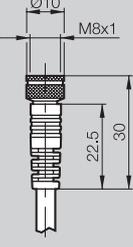
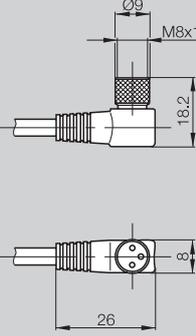
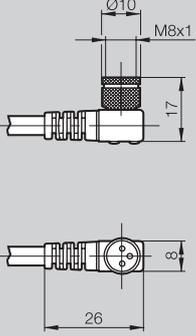
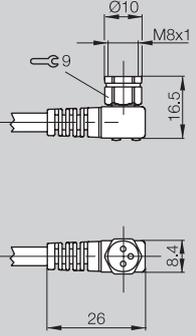
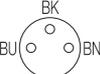
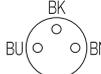
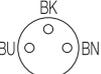
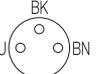
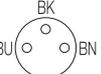
Connectors with thread M5×1



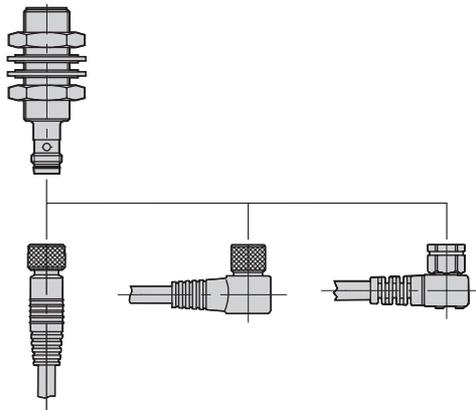
M8 Accessories

DC connectors
M8 connection (S 49)

6.1

BKS-B 48 straight female	BKS-S 48 straight female	BKS-B 49 angle female	BKS-S 49 angle female	BKS-S 49E angle female
S 49 sensors	S 49 sensors	S 49 sensors	S 49 sensors	S 49 sensors
 <p>PX1600</p>	 <p>PX0240</p>	 <p>PX1601</p>	 <p>PX0196</p>	 <p>PX0306 Stainless steel nut</p>
BKS-B 48-1-PU2-__	BKS-S 48-__	BKS-B 49-1-__	BKS-S 49-1-__	
		BKS-B 49-4-__	BKS-S 49-4-__	BKS-S 49E-4-__
			BKS-S 49-6-__	
Balluff	Lumberg	Balluff	Lumberg	Lumberg
10...30 V DC	10...30 V DC	10...30 V DC	10...30 V DC	10...30 V DC
molded-on PUR	molded-on PVC/PUR	molded-on PVC/PUR	molded-on PVC/PUR	molded-on PUR
3x0.34 mm ²	3x0.34 mm ²	3x0.25 mm ²	3x0.34 mm ²	3x0.34 mm ²
IP 67	IP 67	IP 67	IP 67	IP 67
-25...+120 °C	-25...+90 °C	-20...+85 °C	-25...+90 °C	-25...+90 °C
				

Sensors with connector ordering code endings S 49



Connectors with thread M8x1

BKS-B 48/
BKS-S 48

BKS-B 49/
BKS-S 49

BKS-S 49E

LED function and color

2 LED's: green = Supply voltage, yellow = Switching output status

Connector Type	BKS-S 41 straight female	BKS-S 40 angle female	BKS-S 74 straight female	BKS-S 75 angle female
Application	S 49 sensors	S 49 sensors	S 75 sensors	S 75 sensors
no LED, NC or NO	BKS-S 41-1-__	BKS-S 40-1-__		
no LED, complementary			BKS-S 74-3-__	BKS-S 75-3-__
no LED, complementary shielded				BKS-S 75-14-__*
with LED, NC or NO PNP		BKS-S 40-4-__		
with LED, NC or NO NPN		BKS-S 40-6-__		
Manufacturer	Lumberg	Lumberg	Lumberg	Lumberg
Supply voltage U _B	10...30 V DC	10...30 V DC	10...30 V DC	10...30 V DC
Cable	molded-on PVC/PUR	molded-on PVC/PUR	molded-on PVC/PUR	molded-on PVC/PUR
No. of wires × cross-section	3×0.34 mm ²	3×0.34 mm ²	4×0.34 mm ²	4×0.34 mm ²
Cable diameter min.				
Connection				
Degree of protection per IEC 60529	IP 65	IP 65	IP 67	IP 67
Ambient temperature range T _a	-25...+90 °C	-25...+90 °C	-25...+90 °C	-25...+90 °C
View of female/male side				

Please append cable material and length to ordering code!
 PVC, standard length 3 m or 5 m = 03 or 05
 PUR, standard length 3 m or 5 m = PU-03 or PU-05
 Other cable properties on request.

Ordering examples

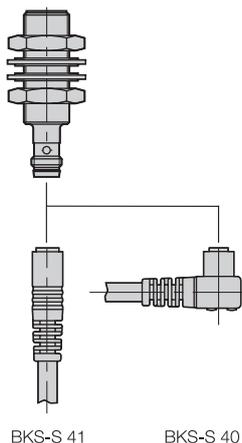
PVC, length 3 m = BKS-S 75-3-03
 PUR, length 3 m = BKS-S 75-3-PU-03

LED function and color

2 LED's: green = Supply voltage, yellow = Switching output status

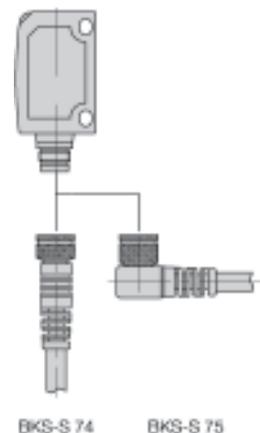
Sensors with connector ordering code endings S 49

Connectors with thread M8×1



Sensors with connector ordering code endings S 75

Connectors with thread M8×1



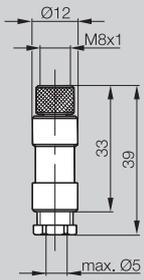
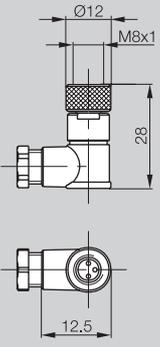
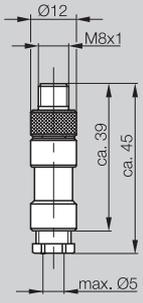
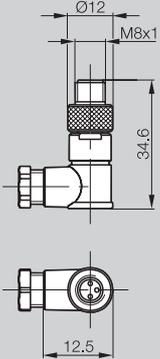
BKS-S 74 BKS-S 75

*Run shield up to cable-connector body interface!

M8 Accessories

DC connectors
for user assembly
M8 connection (S 49)

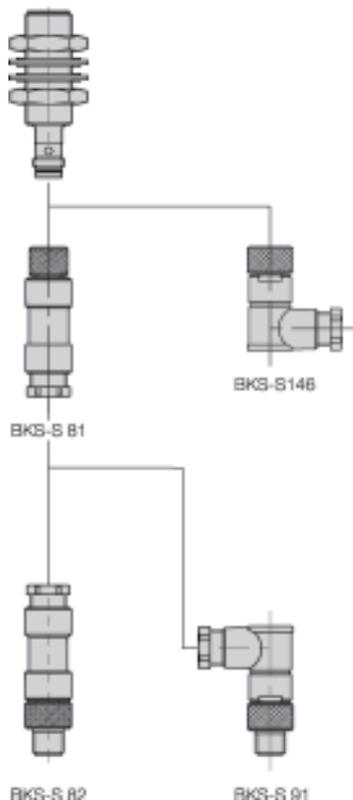
6.1

BKS-S 81-00 straight female	BKS-S146-00 angle female	BKS-S 82-00 straight male	BKS-S 91-00 angle female
S 49 sensors	S 49 sensors	S 49 sensors	S 49 sensors
 <p>PX1234</p>	 <p>PX1781</p>	 <p>PX1233a</p>	 <p>PX1608</p>
BKS-S 81-00	BKS-S146-00	BKS-S 82-00	BKS-S 91-00
Binder 10...30 V DC for user assembly 3× max. 0.25 mm ² max. Ø 5 mm Solder IP 67 -40...+85 °C	Binder 10...30 V DC for user assembly 3× max. 0.25 mm ² max. Ø 5 mm Solder IP 67 -25...+100 °C**	Binder 10...30 V DC for user assembly 3× max. 0.25 mm ² max. Ø 5 mm Solder IP 67 -40...+85 °C	Binder 10...30 V DC for user assembly 3× max. 0.25 mm ² max. Ø 5 mm Solder IP 67 -40...+85 °C
			

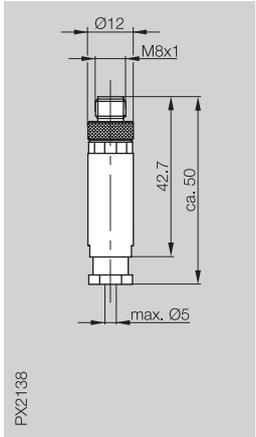
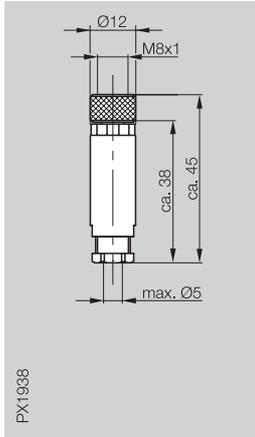
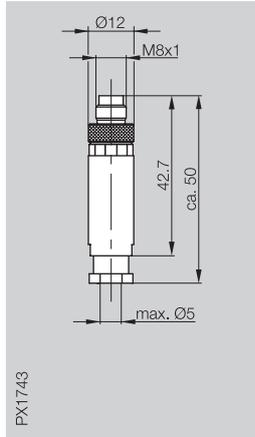
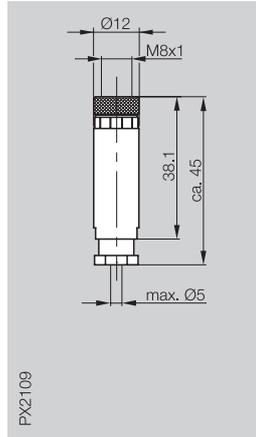
**120 °C (max. 100 h)

**Sensors
with connector
ordering code
endings S 49**

**Connector for user
assembly with
thread M8x1**



Connector Type	BKS-S142-00 straight female	BKS-S141-00 straight male	BKS-S149-00 straight female	BKS-S150-00 straight male
Application	S 49 sensors	S 49 female	S 75 sensors	S 75 female



no LED, NC or NO	BKS-S142-00	BKS-S141-00	BKS-S149-00	BKS-S150-00
Manufacturer	Binder	Binder	Binder	Binder
Supply voltage U_B	10...30 V DC	10...30 V DC	10...30 V DC	10...30 V DC
Cable	for user assembly	for user assembly	for user assembly	for user assembly
No. of wires × cross-section	3×0.14...0.5 mm ²	3×0.14...0.5 mm ²	4×0.14...0.5 mm ²	4×0.14...0.5 mm ²
Cable diameter min.	max. Ø 5 mm	max. Ø 5 mm	max. Ø 5 mm	max. Ø 5 mm
Connection	Screw terminal	Screw terminal	Screw terminal	Screw terminal
Degree of protection per IEC 60529	IP 67	IP 67	IP 67	IP 67
Ambient temperature range T_a	-40...+85 °C	-40...+85 °C	-40...+85 °C	-40...+85 °C

View of female/male side				
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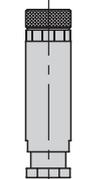
Sensors with connector ordering code endings S 49



Sensors with connector ordering code endings S 75



Connectors for user assembly with thread M8×1

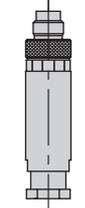


BKS-S142

Connectors for user assembly with thread M8×1



BKS-S149



BKS-S141

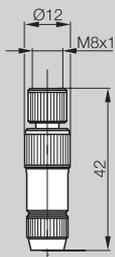


BKS-S150

BKS-S111-RT03

straight female

S 49 sensors

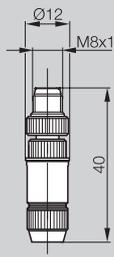


Quick-connect system

BKS-S113-RT03

straight male

S 49 female



Quick-connect system

BKS-S111-RT03

BKS-S113-RT03

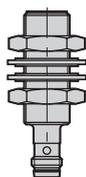
System Harax
10...30 V DC
for user assembly
3x0.14...0.34 mm²
Ø 3.2...5.4 mm
cut/clamp
IP 67
-25...+85 °C*

System Harax
10...30 V DC
for user assembly
3x0.14...0.34 mm²
Ø 3.2...5.4 mm
cut/clamp
IP 67
-25...+85 °C*



*Temperature range for installing the cable on the connector -5...+50 °C

**Sensors
with connector
ordering code
endings S 49**



**Connectors
for user assembly
with thread M8x1**

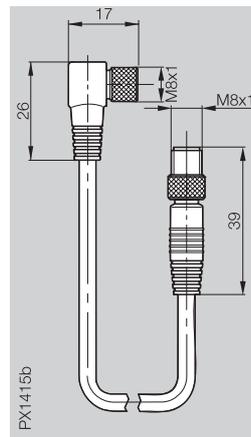
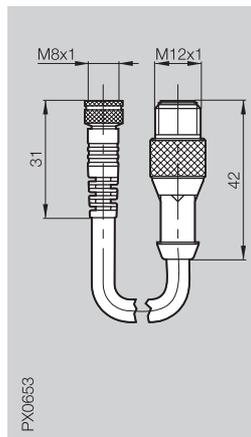
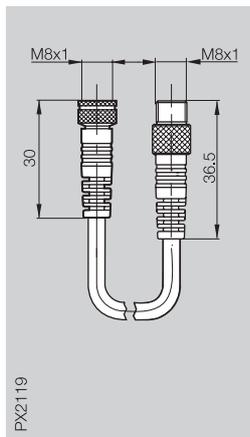
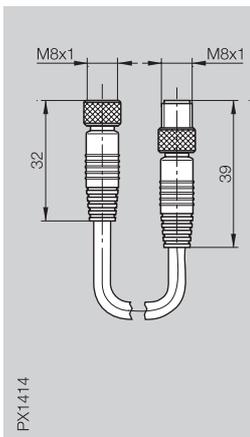


BKS-S111-RT03



BKS-S113-RT03

Connection cable	BKS-B 48- /GS49	BKS-S 48- /GS49	BKS-S 48- /GS4	BKS-B 49- /GS49
Type	straight female/ straight male	straight female/ straight male	straight female/ straight male	angle female/ straight male
Application	S 49 sensors	S 49 sensors	S 49 sensors	S 49 sensors



no LED, NO			BKS-S 48-1/GS4-PU-__	
no LED, NC or NO				
with LED, NO	PNP			
no LED, 3 pins				
no LED, 4 pins				

Manufacturer	Balluff	Lumberg	Lumberg	Balluff
Supply voltage U _B	10...30 V DC	10...30 V DC	10...30 V DC	10...30 V DC
Cable	molded-on PUR	molded-on PUR	molded-on PUR	molded-on PUR
No. of wires × cross-section	3×0.25 mm ²	3×0.34 mm ²	3×0.34 mm ²	3×0.25 mm ²
Degree of protection per IEC 60529	IP 67	IP 67	IP 67	IP 67
Ambient temperature range T _a	-25...+85 °C	-25...+80 °C	-25...+90 °C	-40...+85 °C

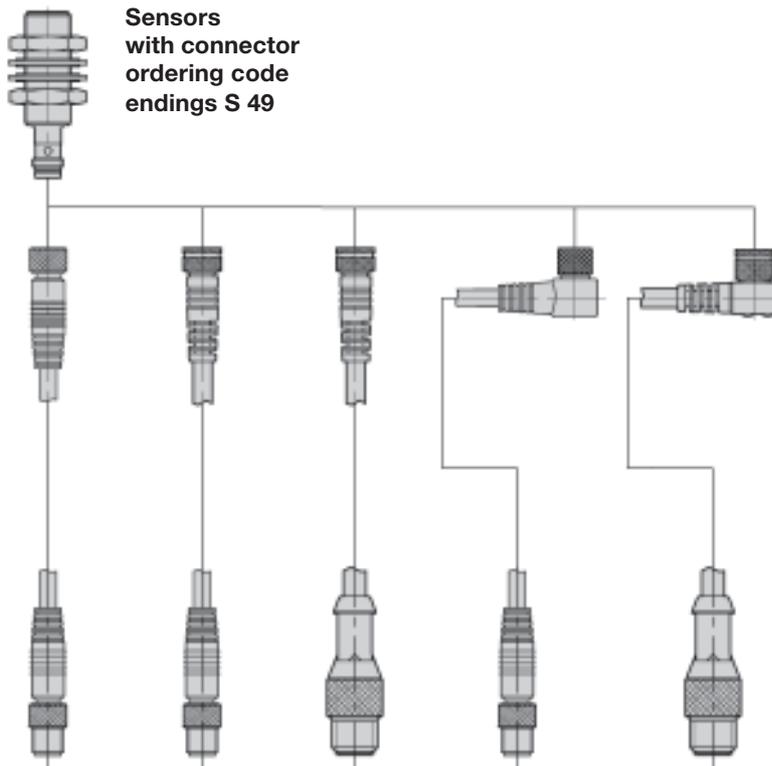
View of female/male side				
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Please append cable length to ordering code!
PUR, standard lengths 0.6 m, 1 m, 2 m = 00.6, 01, 02
Connection cable with extended ratings on request.

Ordering examples

PUR, length 1 m = BKS-S 48-1/GS49-PU-01
PUR, length 2 m = BKS-S 48-1/GS49-PU-02

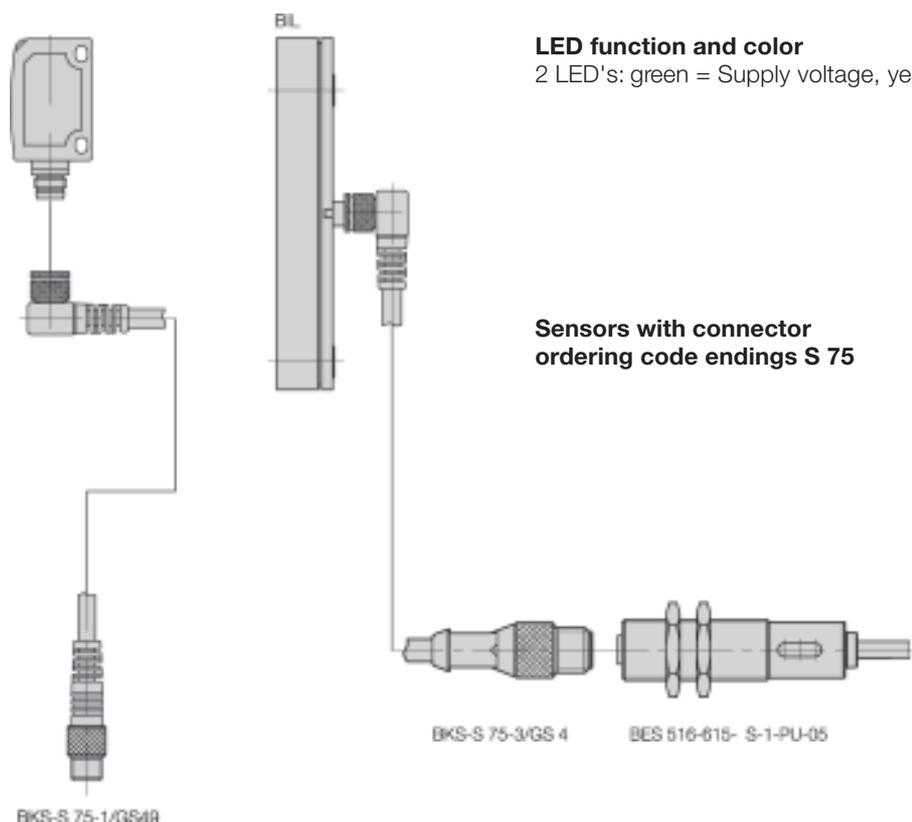
Sensors with connector ordering code endings S 49



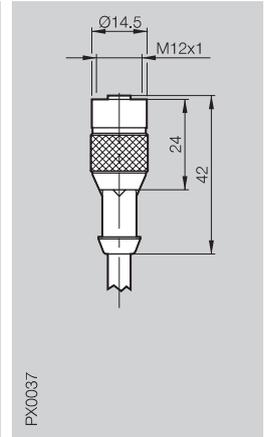
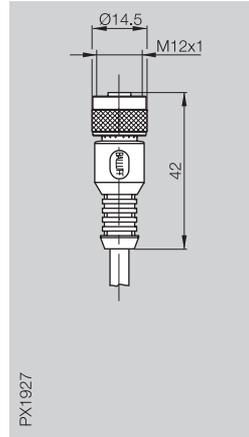
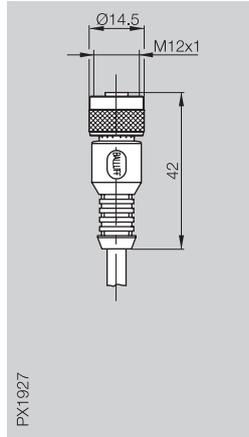
Connection cable with thread M8x1/M8x1 or M8x1/M12x

BKS-B 48-1/GS49 BKS-S 48-1/GS49 BKS-S 48-1/GS4 BKS-B 49-1/GS49 BKS-S 49-1/GS4

BKS-S 49-_/GS49 angle female/ straight male S 49 sensors	BKS-S 49-_/GS4 angle female/ straight male S 49 sensors	BKS-S 75-_/GS49 angle female/ straight male S 75 sensors	BKS-S 75-_/GS4 angle female/ straight male S 75 sensors
<p>PX2104</p>	<p>PX0654c</p>	<p>PX1480</p>	<p>PX0654d</p>
BKS-S 49-4/GS49-PU-__	BKS-S 49-4/GS4-PU-__	BKS-S 75-1/GS49-PU-__	BKS-S 75-3/GS4-PU-__
Lumberg 10...30 V DC molded-on PUR 3x0.34 mm ² IP 67 -25...+80 °C	Lumberg 10...30 V DC molded-on PUR 3x0.34 mm ² IP 67 -25...+90 °C	Lumberg 10...30 V DC molded-on PUR 3x0.34 mm ² IP 67 -25...+80 °C	Lumberg 10...30 V DC molded-on PUR 4x0.34 mm ² IP 67 -25...+80 °C



Connector Type	BKS-B 19 straight female	BKS-B 19 straight female	BKS-S 19 straight female
Application	S 4 sensors	S 4 sensors	S 4 sensors



no LED, NO	BKS-B 19-1-__	BKS-B 19-1-PU2-__	BKS-S 19-1-__
no LED, NC			
no LED, complementary			BKS-S 19-3-__
with 2 LED's, NO PNP	BKS-B 19-4-__		BKS-S 19-4-__
with 2 LED's, NC PNP			
with 2 LED's, NO NPN			
with 2 LED's, NC NPN			
with 2 LED's, complementary PNP			BKS-S 19-8-__
with 2 LED's, complementary NPN			BKS-S 19-9-__
with 3 LED's, complementary PNP			
no LED, NO 2 pins, non-polarized			BKS-S 19-11-__
no LED, NC 2 pins, polarized/non-polarized			BKS-S 19-12-__
no LED, NO 2 pins, polarized			BKS-S 19-13-__
no LED, complementary shielded			BKS-S 19-14-__*

Manufacturer	Balluff	Balluff	Lumberg
Supply voltage U _B	10...30 V DC	10...55 V DC	10...30 V DC
Cable	molded-on PVC/PUR	molded-on PUR	molded-on PVC/PUR
No. of wires x cross-section	3x0.34 mm ² /4x0.25 mm ²	3x0.34 mm ²	3x0.34 mm ² /4x0.34 mm ²
Degree of protection per IEC 60529	IP 67	IP 67	IP 68 per BWN Pr. 20
Ambient temperature range T _a	-25...+85 °C	-25...+120 °C	-25...+70 °C

View of female side			
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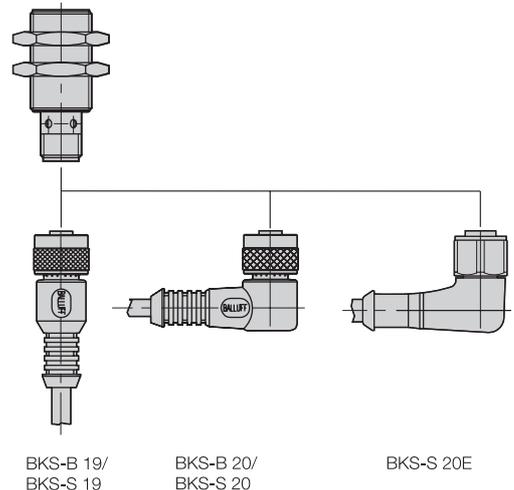
Please append cable material and length to ordering code!
 PVC, standard length 3 m or 5 m = 03 or 05
 PUR, standard length 3 m or 5 m = PU-03 or PU-05
 Other cable properties on request.

Ordering examples

PVC, length 3 m = BKS-S 19-4-03
 PUR, length 3 m = BKS-S 19-4-PU-03

Sensors with connector ordering code endings S 4

Connectors with thread M12x1

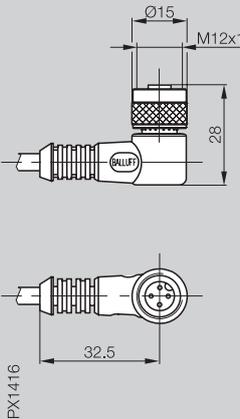
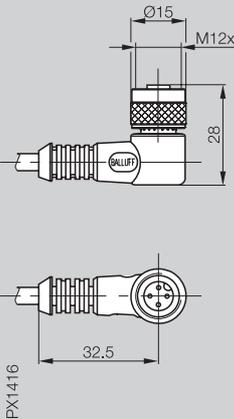
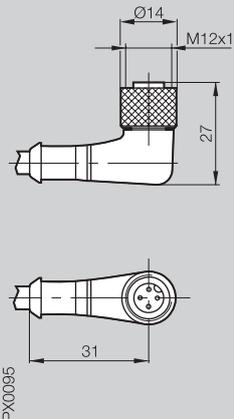
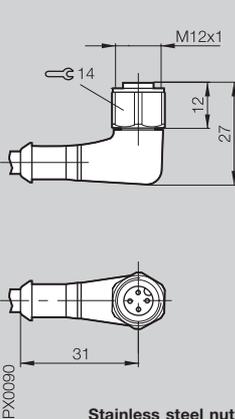
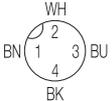
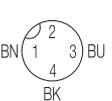
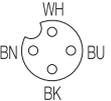
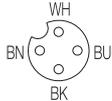


*Shield through knurled coupling ring!

M12 Accessories

DC connectors
M12 connection (S 4)

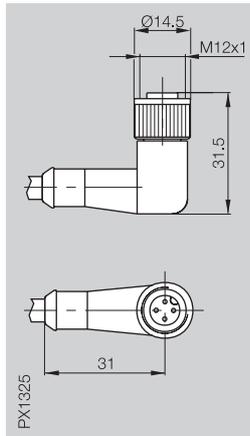
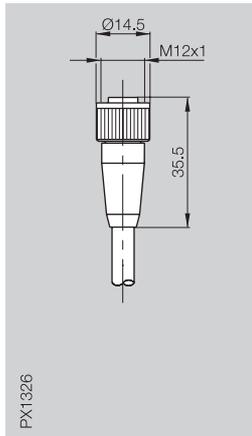
6.1

BKS-B 20 angle female	BKS-B 20 angle female	BKS-S 20 angle female	BKS-S 20E angle female	
S 4 sensors	S 4 sensors	S 4 sensors	S 4 sensors	
				
BKS-B 20-1-__	BKS-B 20-1-PU2-__	BKS-S 20-1-__		
		BKS-S 20-2-__		
BKS-B 20-4-__		BKS-S 20-3-__	BKS-S 20E-4-__	
		BKS-S 20-4-__		
		BKS-S 20-5-__		
		BKS-S 20-6-__		
BKS-B 20-8-__		BKS-S 20-7-__	BKS-S 20E-8-PU__	
		BKS-S 20-8-__		
		BKS-S 20-9-__		
		BKS-S 20-10-__	BKS-S 20E-10-PU__	
		BKS-S 20-11-__		
		BKS-S 20-12-__		
		BKS-S 20-13-__		
Balluff	Balluff	Lumberg	Lumberg	
10...30 V DC	10...55 V DC	10...30 V DC	10...30 V DC	
molded-on PVC/PUR	molded-on PUR	molded-on PVC/PUR	molded-on PVC/PUR	
3x0.34 mm ² /4x0.25 mm ²	3x0.34 mm ²	3x0.34 mm ² /4x0.34 mm ²	3x0.34 mm ² /4x0.34 mm ²	
IP 67	IP 67	IP 68 per BWN Pr. 20	IP 68 per BWN Pr. 20	
-25...+85 °C	-25...+120 °C	-25...+70 °C	-25...+90 °C	
				

LED function and color

2 LED's: green = Supply voltage, yellow = Switching output status
 3 LED's: green = Supply voltage,
 2x yellow = Switching output status (1x NC, 1x NO)

Connector Type	BKS-S 23 straight female	BKS-S 24 angle female			
Application	S 4 sensors	S 4 sensors			



no LED, NO	BKS-S 23-1-__	BKS-S 24-1-__			
no LED, complementary	BKS-S 23-3-__	BKS-S 24-3-__			
no LED, 5 pins					
no LED, 8 pins shielded					

Manufacturer	Brad Harrison	Brad Harrison			
Supply voltage U_B	10...30 V DC	10...30 V DC			
Cable	molded-on PVC	molded-on PVC			
No. of wires x cross-section	3x0.34 mm ² /4x0.25 mm ²	3x0.34 mm ² /4x0.25 mm ²			
Degree of protection per IEC 60529	IP 67	IP 67			
Ambient temperature range T_a	-40...+105 °C	-40...+105 °C			

View of female side					
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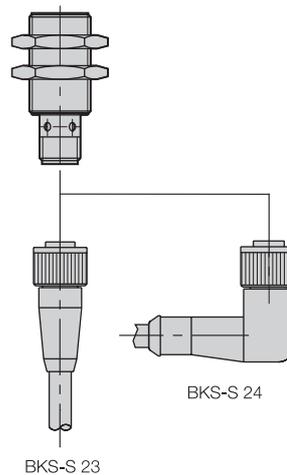
Please append cable material and length to ordering code!
 PVC, standard length 3 m or 5 m = 03 or 05
 PUR, standard length 3 m or 5 m = PU-03 or PU-05
 Other cable properties on request.

Ordering examples

PVC, length 3 m = BKS-S134-17-05
 PUR, length 3 m = BKS-S134-17-PU-05

Sensors with connector ordering code endings S 4

Connectors with thread M12x1



M12 Accessories

DC connectors
M12 connection

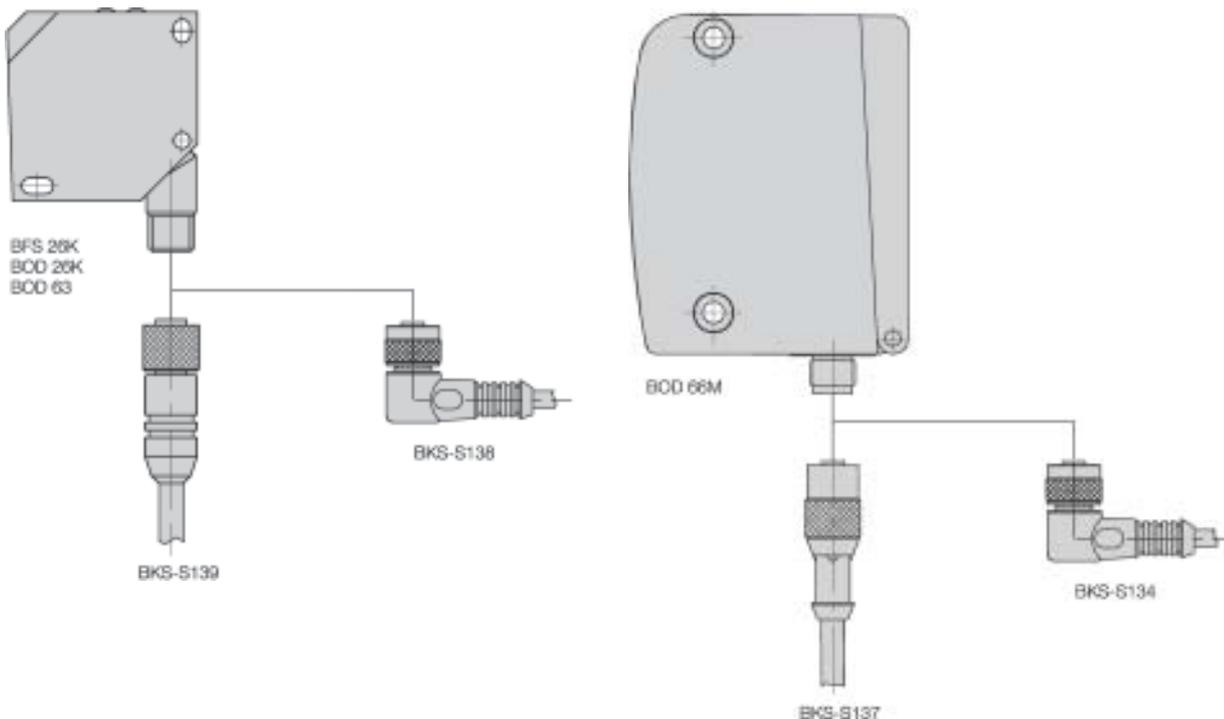
6.1

BKS-S134 angle female	BKS-S137 straight female	BKS-S139 straight female	BKS-S138 angle female
BOD 66M-...-S92	BOD 66M-...-S92	BFS 26K, BOD 26K, BOD 63M	BFS 26K, BOD 26K, BOD 63M
BKS-S134-17-__	BKS-S137-PH-__	BKS-S139-PU-__**	BKS-S138-PU-__***
Binder 10...30 V DC molded-on PVC/PUR 5x0.25 mm ² IP 67 -25...+85 °C	Lumberg 10...30 V DC molded-on PUR* 5x0.25 mm ² IP 68 nach BWN Pr. 20 -25...+90 °C	Lumberg 10...30 V DC molded-on PUR 8x0.25 mm ² IP 67 -25...+90 °C	Lumberg 30 V AC/36 V DC molded-on PUR 8x0.25 mm ² IP 67 -25...+80 °C

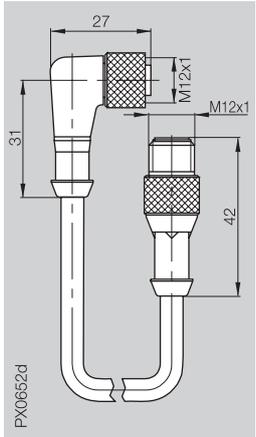
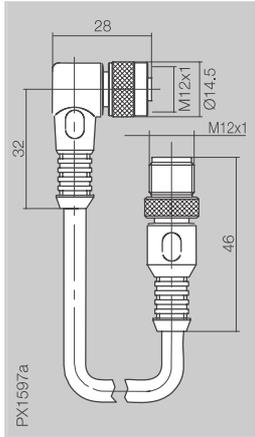
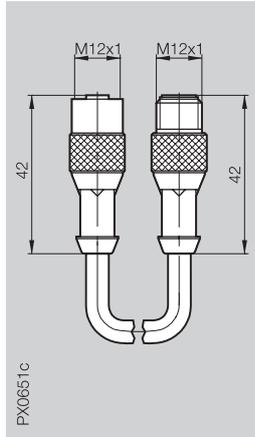
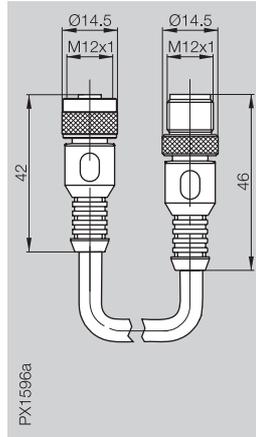
*halogen-free

**Shield through knurled coupling ring!

***Run shield up to cable-connector body interface!



Connector/connection cable Type	BKS-B 19-_/GS4 straight female/ straight male	BKS-S 19-_/GS4 straight female/ straight male	BKS-B 20-_/GS4 angle female/ straight male	BKS-S 20-_/GS4 angle female/ straight male
Application	S 4 sensors	S 4 sensors	S 4 sensors	S 4 sensors



no LED, NO	BKS-B 19-1/GS4-PU-__	BKS-S 19-1/GS4-PU-__		
no LED, complementary	BKS-B 19-3/GS4-PU-__	BKS-S 19-3/GS4-PU-__		
with LED, NO			BKS-B 20-3/GS4-PU-__	BKS-S 20-3/GS4-PU-__
			BKS-B 20-4/GS4-PU-__	BKS-S 20-4/GS4-PU-__

Manufacturer	Balluff	Lumberg	Balluff	Lumberg
Supply voltage U _B	10...30 V DC	10...30 V DC	10...30 V DC	10...30 V DC
Cable	molded-on PUR	molded-on PUR	molded-on PUR	molded-on PUR
No. of wires × cross-section	3×0.34 mm ² /4×0.25 mm ²	3×0.34 mm ² /4×0.25 mm ²	3×0.34 mm ² /4×0.25 mm ²	3×0.34 mm ² /4×0.25 mm ²
Degree of protection per IEC 60529	IP 67	IP 68 per BWN Pr. 20	IP 67	IP 68 per BWN Pr. 20
Ambient temperature range T _a	-25...+85 °C	-25...+90 °C	-25...+85 °C	-25...+90 °C

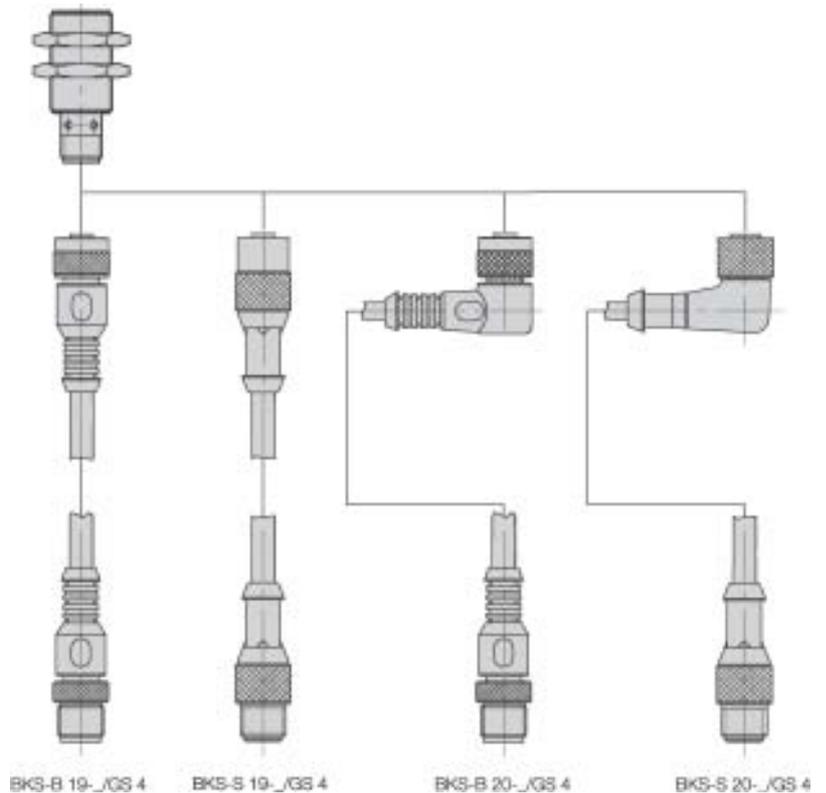
View of female/male side				
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Please append cable material and length to ordering code!
PUR, standard lengths 0.6 m, 1 m, 2 m = 00.6, 01, 02
Connection cable with extended ratings on request.

Ordering examples
PUR, length 1 m =
BKS-S 20-1/GS4-PU-01

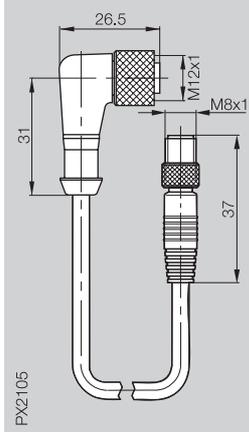
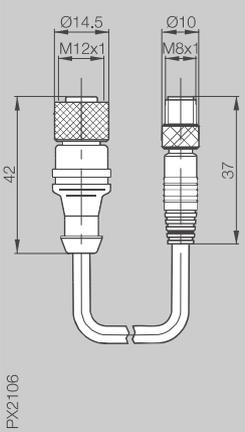
Sensors with connector ordering code endings S 4

Connection cable with thread M12×1



BKS-S 19-_/GS49
straight female/
straight male
S 4 sensors

BKS-S 20-_/GS49
angle female/
straight male
S 4 sensors

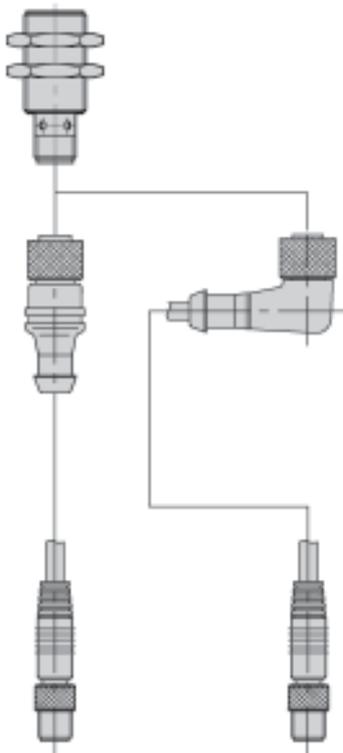
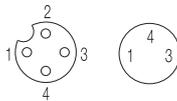
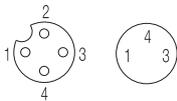


BKS-S 19-4/GS49-PU-

BKS-S 20-4/GS49-PU-

Lumberg
10...30 V DC
molded-on PUR
3x0.34 mm²
IP 67
-25...+80 °C

Lumberg
10...30 V DC
molded-on PUR
3x0.34 mm²
IP 67
-25...+80 °C

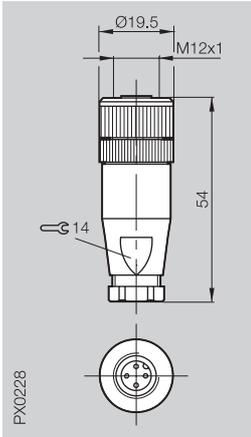
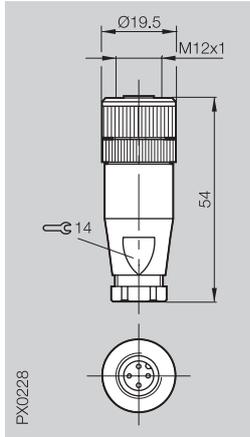
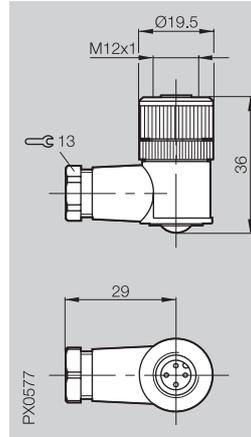
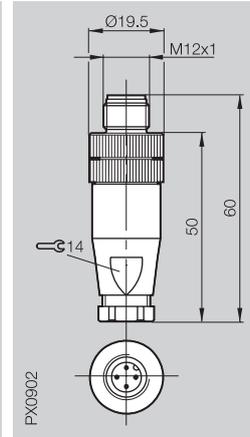
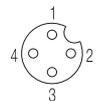
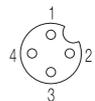
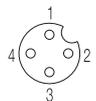


BKS-B 19-_/GS49

BKS-S 20-_/GS49

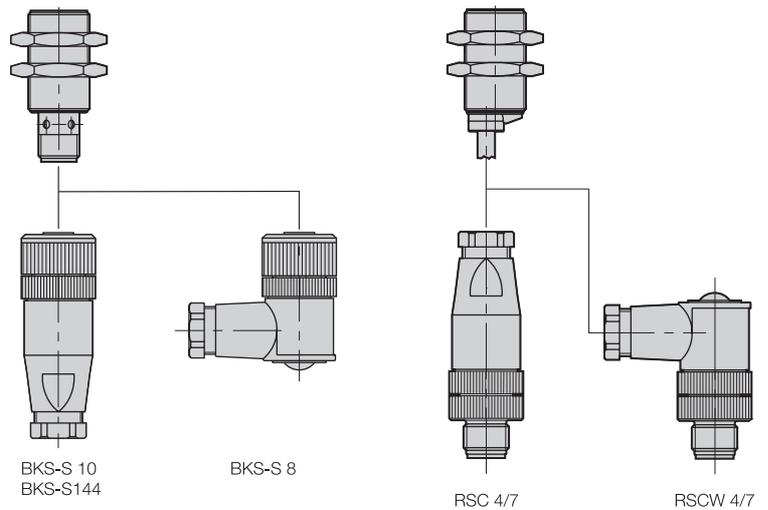
LED function and color

2 LED's: green = Supply voltage, yellow = Switching output status

Connector Type	BKS-S 10 straight female	BKS-S144-00 straight female	BKS-S 8 angle female	RSC 4/7 angle female
Application	S 4 sensors	S 4 sensors	S 4 sensors	S 4 female
				
no LED, complementary	BKS-S 10-3	BKS-S144-00	BKS-S 8-3	RSC 4/7
with LED, NO	BKS-S 10-4		BKS-S 8-4	
with LED, NO	BKS-S 10-6		BKS-S 8-6	
Manufacturer	Binder	Binder	Binder	Lumberg
Supply voltage U _B	10...30 V DC	10...30 V DC	10...30 V DC	10...30 V DC
Cable	for user assembly	for user assembly	for user assembly	for user assembly
No. of wires × cross-section	3/4× max. 0.75 mm ²	3/4× max. 0.75 mm ²	3/4× max. 0.75 mm ²	3/4× max. 0.75 mm ²
Cable diameter min.	Ø 4...6 mm	Ø 4...6 mm	Ø 4...6 mm	Ø 4...6 mm
Connection	Screw terminals	Screw terminals	Screw terminals	Screw terminals
Degree of protection per IEC 60529	IP 67	IP 68, 1 m, 30 days	IP 67	IP 67
Ambient temperature range T _a	-40...+85 °C	-25...+100 °C	-40...+85 °C	-25...+90 °C
View of female/male side				

Sensors with connector ordering code endings S 4 or sensors with cable

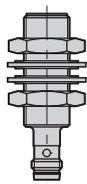
Connector for user assembly with thread M12×1



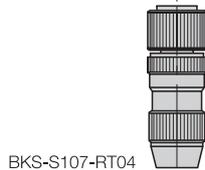
RSCW 4/7 angle male	BKS-S107-RT04 straight female	BKS-S109-RT04 straight male	BKS-S 7-1 angle female	BKS-S 1 angle female
S 4 female	S 4 sensors	S 4 female	BES 516-300-S 203	BES IKJ, BOS 30M-...-SA 1
RSCW 4/7	BKS-S107-RT04	BKS-S109-RT04	BKS-S 7-1	BKS-S 1
Lumberg 10...30 V DC for user assembly 3/4x max. 0.75 mm ² Ø 4...6 mm Screw terminals IP 67 -25...+90 °C	System Harax 10...30 V DC for user assembly 3/4x 0.14...0.34 mm ² Ø 4...5,1 mm cut/clamp IP 67 -25...+85 °C*	System Harax 10...30 V DC for user assembly 3/4x 0.14...0.34 mm ² Ø 4...5,1 mm cut/clamp IP 67 -25...+85 °C*	Binder 10...30 V DC for user assembly 3/4x 0.5...0.75 mm ² Ø 6.5...8 mm Screw terminals IP 65 -40...+85 °C	Amphenol-Tuchel 10...55 V DC, 20...250 V AC/DC for user assembly 5x 0.5...1.5 mm ² Ø 5...11 mm Crimp connection IP 65 -40...+125 °C

*Temperature range for installing the cable on the connector -5...+50 °C

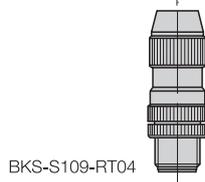
Sensors with connector ordering code endings S 4



Connector for user assembly with thread M12x1



BKS-S107-RT04

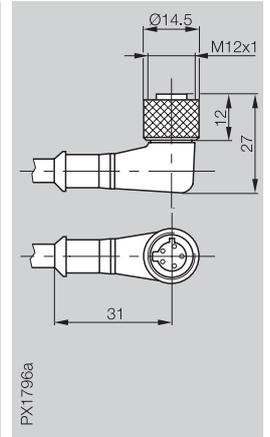
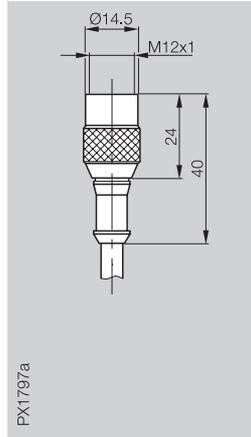
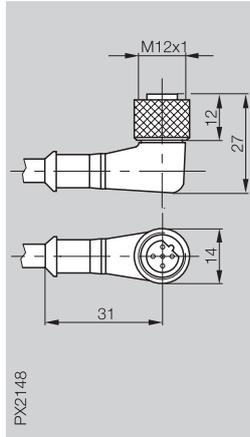
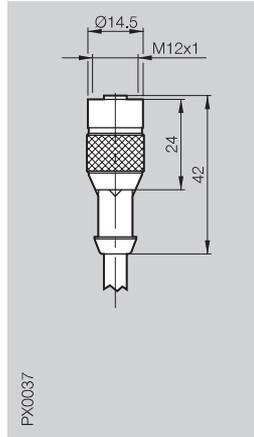


BKS-S109-RT04

LED function and color

2 LED's: green = Supply voltage, yellow = Switching output status

Connector	BKS-S 72	BKS-S 73	BKS-S 80	BKS-S 80
Type	straight female	angle female	straight female	angle female
Application	BNS ...-S 78 for multiple position switches	BNS ...-S 78 for multiple position switches	BNS ...-S 80 for multiple and single position switches	BNS ...-S 80 for multiple and single position switches

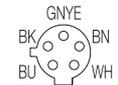
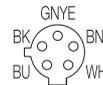


Ordering code	BKS-S 72-PU-05	BKS-S 73-PU-05	BKS-S 80-G-PU-05	BKS-S 80-W-PU-05
Manufacturer	Lumberg	Lumberg	Lumberg	Lumberg
Supply voltage U _B	36 V AC/30 V DC	36 V AC/30 V DC	300 V AC/10...60 V DC	300 V AC/10...60 V DC
Cable	5 m molded-on PUR	5 m molded-on PUR	5 m molded-on PUR	5 m molded-on PUR
No. of wires × cross-section	4×0.34 mm ² /1×0.5 mm ²	4×0.34 mm ² /1×0.5 mm ²	5×0.5 mm ²	5×0.5 mm ²
Degree of protection per IEC 60529	IP 68 per BWN Pr. 20	IP 68 per BWN Pr. 20	IP 67	IP 68 per BWN Pr. 20
Ambient temperature range T _a	-25...+90 °C	-25...+90 °C	-25...+90 °C	-25...+90 °C

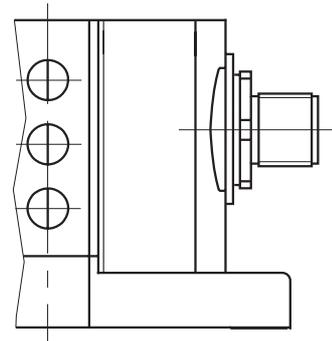
Connector on housing

Connector	S 72	S 73	S 80
Application	BNS ...-S 78	BNS ...-S 78	BNS ...-S 80
Supply voltage U _B	36 V AC/30 V DC	36 V AC/30 V DC	300 V AC/10...60 V DC

View of female side



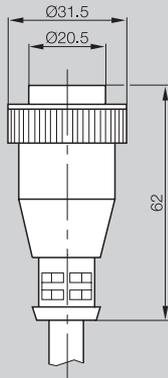
Other cable properties on request.



Note!

Standard configuration is NO.
Other pin configurations on request.

BKS-S 90
straight female
BNS ...-S 90
for multiple position switches

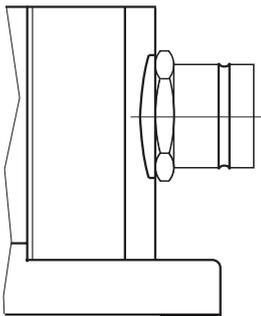
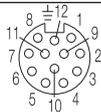


PX1798b

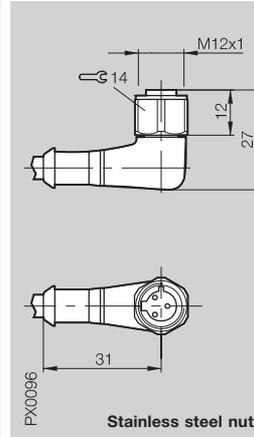
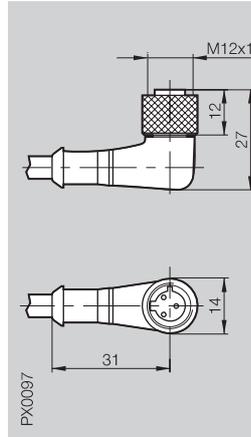
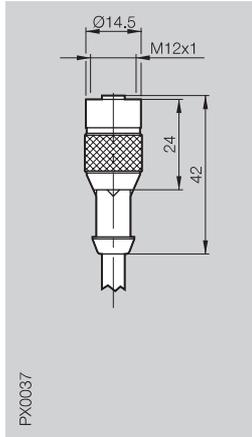
BKS-S 90-G-PU-__

Brad Harrison
300 V AC/DC (max. 2 A)
6 m/15 m molded-on PUR
12x0.5 mm²
IP 67
-25...+90 °C
Please append cable length in ordering code!
6 m = 06/15 m = 15

S 90
BNS ...-S 90
300 V AC/DC (max. 2 A)



Connector Type	BKS-S 27 straight female	BKS-S 28 angle female	BKS-S 28E angle female
Application	S 27 sensors	S 27 sensors	S 27 sensors

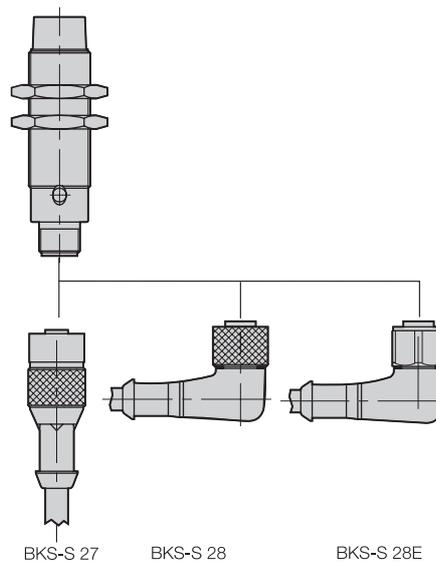


no LED, NC or NO	BKS-S 27-__	BKS-S 28-__	BKS-S 28E-__
Manufacturer	Lumberg	Lumberg	Lumberg
Supply voltage U _B	20...250 V AC/DC	300 V AC	300 V AC
Cable	molded-on PVC	molded-on PVC	molded-on PVC
No. of wires × cross-section	3×0.5 mm ²	3×0.5 mm ²	3×0.5 mm ²
Degree of protection per IEC 60529	IP 68 per BWN Pr. 20	IP 68 per BWN Pr. 20	IP 68 per BWN Pr. 20
Ambient temperature range T _a	-25...+90 °C	-25...+90 °C	-25...+90 °C
View of female side			

Please append cable material and length to ordering code!
PVC, standard length 3 m or 5 m = 03 or 05
Other cable properties on request.

Ordering example
PVC, length 3 m = BKS-S 27-03

Sensors with connector ordering code endings S 27



Connectors with thread M12×1