Accessories

DC connections, DC connection cables MQ12 connection (S4)

The first quick-connect system requiring no changes on the sensor side!

There is a whole range of quick-connect systems for M12 connectors on the market, but they all have the same problem. To truly make use of the benefits of the system, you have to make changes to the mating piece. Different systems mean different mating pieces, since the systems are of course not compatible with each other. This makes things difficult for the customer and his applications.

The new MQ12 eliminates this problem completely. MQ12 can be used for any commonly available M12 sensor, no ifs, buts or maybes!

Simply plug it in and fix with a quarter turn – that's it! This means the system can be directly inserted in existing applications and is a 1:1 replacement for today's standard cables. The MQ12 is advantageous especially in applications for warehousing, assembly and conveying, where large numbers of sensors are used.

By reducing the connection time by up to 80%, the time expenditure for the overall installation is drastically reduced.

Technical benefits

- High shock and vibration resistance
- Degree of protection IP 67
- Available for various cable materials (PUR, PVC)

Connector	
Version	
Application	

no LED,	NO	
no LED,	complementary	
with LED,	NO	
with LED,	complementary	
Supply voltage	U _B	
Cable		
No. of wires ×	cross-section	
Degree of prot	ection per IEC 60529	
Ambient temp	erature range Ta	
View of female	side	

Other cable lengths and cable qualities on request.

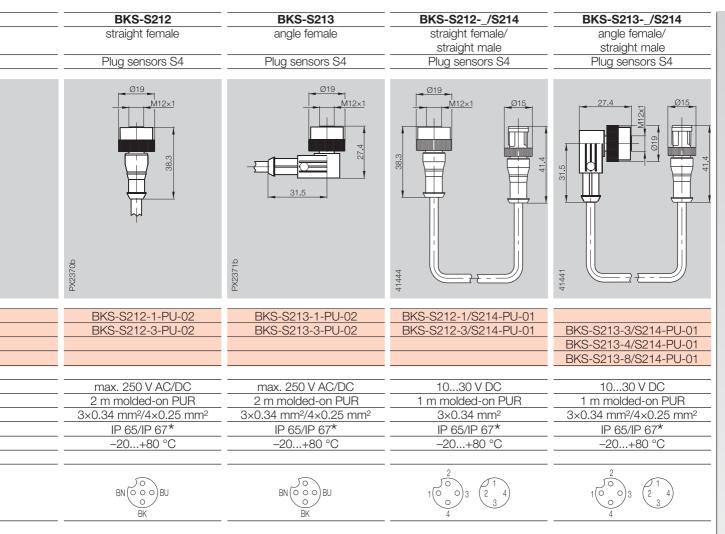
Ordering example

PUR, length 1 m = BKS-S212-1/S214-PU-01 PUR, length 2 m = BKS-S213-3-PU-02



Quick-Connect System MQ12 Accessories

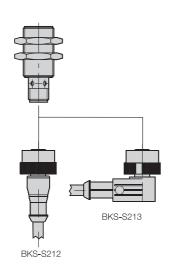
DC connectors, DC connection cables MQ12 connection (S4)



^{*}when plugged together/locked

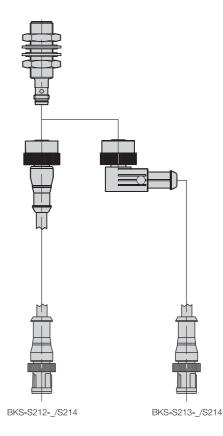
Sensors with connector **Ordering code** endings S4

Connector with mounting thread M12×1



Sensors with connector Ordering code endings S4

Connection cable mounting thread M12×1/M12×1



Connectors Splitter boxes with accessories Electrical devices Fasteners Tools

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BALLUFF 5.11

Connector			BKS-B 19	BKS-B 19	BKS-S 19	
Version			straight female	straight female	straight female	
Application			Plug sensors S4	Plug sensors S4	Plug sensors S4	
			Ø14.5 M12x1	Ø14.5 M12x1	Q14.5 M12x1	
			PX1927	PX1927	PX0037	
no LED,	NO		BKS-B 19-1-03	BKS-B 19-1-PU2-03	BKS-S 19-1-PU-03	
no LED,	NC					
no LED,	complementary		BKS-B 19-3-05		BKS-S 19-3-PU-03	
with 2 LED's,	NO,	PNP	BKS-B 19-4-05		BKS-S 19-4-PU-03	
with 2 LED's,	NC,	PNP				
with 2 LED's,		NPN				
with 2 LED's,		NPN				
	complementary	PNP			BKS-S 19-8-PU-03	
	complementary	NPN			BKS-S 19-9-PU-03	
with 3 LED's,		PNP			BIO 0 19 9 1 0 00	
no LED,	NO,	2-pin, non-polarized			BKS-S 19-11-PU-03	
no LED,	NC,	2-pin, non-polarized 2-pin, polarized/non-polarized			BKS-S 19-11-10-05	
no LED,	NO,	2 pins, polarized			BKS-S 19-13-PU-05	
no LED,	complementary	shielded			BKS-S 19-14-PU-05*	
IIO LLD,	Complementary	Silleided			BR3-3 19-14-FU-03	
Cupplyyoltog	o I I		1030 V DC	1055 V DC	1030 V DC	
Supply voltage	e UB					
Cable		3 m/5 m molded-on PVC	3 m molded-on PUR	3 m/5 m molded-on PUR		
No. of wires × cross-section		3×0.34 mm ² /4×0.25 mm ²	3×0.34 mm ²	3×0.34 mm²/4×0.34 mm²		
Degree of protection per IEC 60529		IP 67	IP 67	IP 68 per BWN Pr. 20		
Ambient temp	erature range T _a		−25+85 °C	-25+120 °C	−25+70 °C	
View of female	e side		BN O BU	BN O BU	BN O BU	
				W 1	*Shield through knurled	

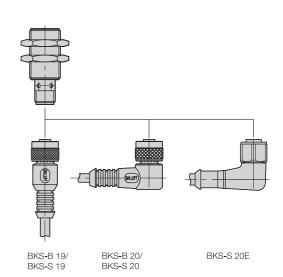
Other cable lengths and cable qualities on request.

Ordering examples

PVC, length 3 m = BKS-B 19-1-03 PUR, length 3 m = BKS-S 20-1-PU-03

Sensors with connector Ordering code endings S4

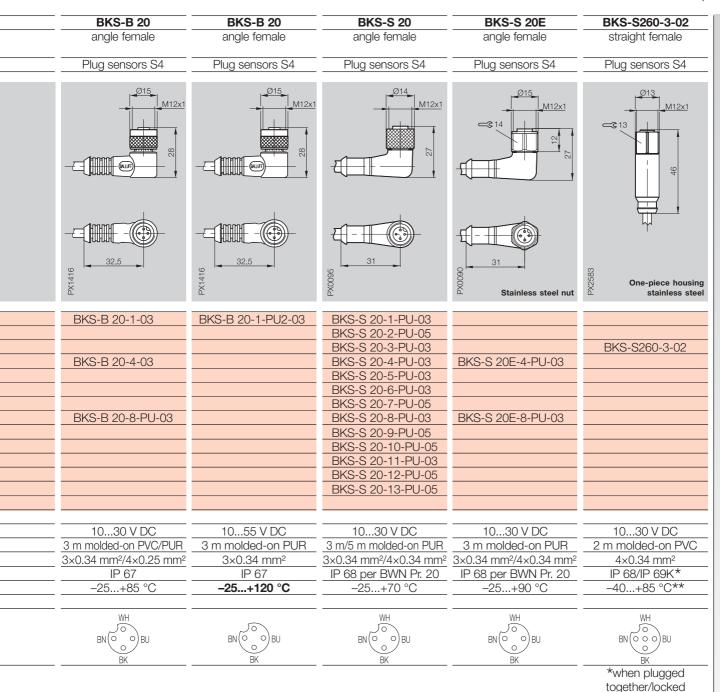
Connector with mounting thread M12×1



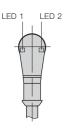
ring!

Accessories

DC connectors M12 connection (S4)

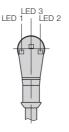


Connectors with 2 LED's



Color and function: LED 1: yellow (NO) LED 2: green (Power)

with 3 LED's



Color and function: LED 1: yellow (NO) LED 2: green (Power) LED 3: white (NC)

**short-time 105 °C

Connectors

Splitter boxes with accessories Electrical devices Fasteners

Tools

Accessories

DC connectors M12 connection (S4)

M12

Connector	BKS-S 23	BKS-S 24	 	
Version	straight female	angle female	 	
	2 2 3			
Application	Plug sensors S4	Plug sensors S4		
	92551XY	©14.5 M12x1		
no LED, NO	BKS-S 23-1-05			
no LED, complementary	BKS-S 23-1-05	BKS-S 24-3-03		
no LED, 5 pins	DNO-0 20-0-00	DNO-0 24-0-00		
no LED, 8-pin shielded				
TIO LLD, O PITT OTHOROGO				
Supply voltage U _B	1030 V DC	1030 V DC		
Cable	5 m molded-on PVC	3 m molded-on PVC	 	
No. of wires × cross-section		3×0.34 mm ² /4×0.25 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	BN (OO) BU	BN (OO) BU		
	BK	BK	 	

Other cable lengths and cable qualities on request.

Ordering examples

PVC, length 3 m = BKS-S 23-1-03 PUR, length 3 m = BKS-S139-PU-03

