Tubular housings · M18





	LISTED			
ousing size M18×1 M18×1		M18×1		
Measuring range		60300 mm	60300 mm	
010 V DC	Ordering code	BUS000K		
	Part number	BUS M18K0-XAFX-030-S04K		
420 mA	Ordering code		BUS000N	
	Part number		BUS M18K0-XBFX-030-S04K	
Supply voltage U _B		24 V DC ±25 %	24 V DC ±25 %	
No-load supply current I_0 max.		≤ 35 mA	≤ 35 mA	
Reverse polarity/short circuit pro	otected	yes/yes	yes/yes	
Ambient temperature range T_a		–15+70 °C	–15+70 °C	
Output function indicator				
Echo function indicator				
Degree of protection per IEC 60	529	IP 67	IP 67	
Temperature compensation				
Ultrasonic frequency		330 kHz	330 kHz	
Sound cone opening		8°	8°	
Resolution		0.2 mm	0.2 mm	
Max. characteristic deviation		≤0.3 %	≤0.3 %	
Characteristic slope		42 mV/mm	67 μA/mm	
Settings				
Response time		50 ms	50 ms	
Material	Housing	PBT	PBT	
	Sensing face	Epoxy-resin hollow-glass-spheres	Epoxy-resin hollow-glass-spheres	
	Cover	PBT	PBT	
Approvals		CE, cULus	CE, cULus	
Connection		M12 connector,	M12 connector,	
		4-pin, A-coded	4-pin, A-coded	

SYNC

Synchronization prevents sensors that are positioned adjacent to one another from interfering with each other. Sensors are synchronized by connecting their sync lines together. Synchronized sensors start their transmit pulse at the same time. The slowest sensor determines the cycle time.





Sound deflection brackets and focussing attachments can be found on page 46.



Tubular housings · M18









M18×1	M18×1	M18×1	M18×1	
30400 mm	30400 mm	100600 mm	100600 mm	
BUS0003		BUS000J		
BUS M18K0-XAER-040-S92K		BUS M18K0-XAFX-060-S04K		
	BUS0004		BUS000M	.
	BUS M18K0-XBER-040-S92K		BUS M18K0-XBFX-060-S04K	T 1 1 1
24 V DC ±25 %	housings			
≤ 40 mA	≤ 40 mA	≤ 35 mA	≤ 35 mA	Block-style
yes/yes	yes/yes	yes/yes	yes/yes	housings
–15+70 °C	–15+70 °C	−15+70 °C	–15+70 °C	
2× LED yellow	2× LED yellow			
LED green	LED green			
IP 67	IP 67	IP 67	IP 67	
yes	yes	yes	yes	
360 kHz	360 kHz	300 kHz	300 kHz	
8°	8°	8°	8°	
0.2 mm	0.2 mm	0.2 mm	0.2 mm	
≤0.5 %	≤0.5 %	≤0.3 %	≤0.3 %	
adjustable	adjustable	20 mV/mm	32 µA/mm	
Teach-in (remote)	Teach-in (remote)			
100 ms	100 ms	50 ms	50 ms	
PBT	PBT	PBT	PBT	
Epoxy-resin hollow-glass-spheres	Epoxy-resin hollow-glass-spheres	Epoxy-resin hollow-glass-spheres	Epoxy-resin hollow-glass-spheres	
PBT	PBT	PBT	PBT	
CE	CE	CE, cULus	CE, cULus	
M12 connector,	M12 connector,	M12 connector,	M12 connector,	
5-pin, A-coded	5-pin, A-coded	4-pin, A-coded	4-pin, A-coded	





LED





Electrical devices, connectors and holders, see Accessories section, starting on page 37

Tubular housings · M18







SYNC

Synchronization prevents sensors that are positioned adjacent to one another from interfering with each other. Sensors are synchronized by connecting their sync lines together. Synchronized sensors start their transmit pulse at the same time. The slowest sensor determines the cycle time.





Sound deflection brackets and focussing attachments can be found on page 46.



Tubular housings · M30





Housing size		M30×1.5	M30×1.5	
Measuring range		801600 mm	3503500 mm	
010 V DC or 420 mA	Ordering code	BUS0016	BUS0015	
and 2× PNP N.O./N.C.	Part number	BUS M30K0-PWCET-150-S92K	BUS M30K0-PWCET-350-S92K	
010 V DC or 420 mA	Ordering code	BUS0018	BUS0017	<i>\`\`\`\`</i>
and 2× NPN N.O./N.C.	Part number	BUS M30K0-NWCET-150-S92K	BUS M30K0-NWCET-350-S92K	
Supply voltage U _B		24 V DC ±25 %	24 V DC ±25 %	Tubular
Output current max.		100 mA	100 mA	Block-style
No-load supply current I max.		≤ 60 mA	≤ 60 mA	housings
Reverse polarity/short circuit pro	otected	yes/yes	yes/yes	Ū
Ambient temperature range T		−15+70 °C	−15+70 °C	
Switching frequency f		1 Hz	1 Hz	
Output function indicator		2× LED yellow	2× LED yellow	
Echo function indicator		LED green	LED green	
Degree of protection per IEC 60529		IP 67	IP 67	
Temperature compensation		yes	yes	
Ultrasonic frequency		220 kHz	130 kHz	
Sound cone opening		8°	8°	
Resolution		1 mm	1 mm	
Max. characteristic deviation		0.5 %	0.5 %	
Characteristic slope		adjustable	adjustable	
Settings		Teach-in (button)	Teach-in (button)	
Response time		300 ms	500 ms	
Material	Housing	PBT	PBT	
	Sensing face	Epoxy-resin hollow-glass-spheres	Epoxy-resin hollow-glass-spheres	
	Cover	PBT	PBT	
Approvals		CE	CE	
Connection		M12 connector,	M12 connector,	
		5-pin, A-coded	5-pin, A-coded	

h

Hysteresis and window function are possible. For explanations, see chapter Fundamentals and Definitions, page 20.



BAE006Y (BES 516-611-A-1)

Analog switching device for control cabinet installation The analog switching device is operated with 24 V and supplies the voltage for analog sensors. The device is controlled directly via the current or voltage signals. From this signal, separate push-pull final stages (PNP/ NPN) are used to create three switch points (A1...A3) which can be set independently using the potentiometer (on the front side). The respective switching state is indicated by LEDs.





Electrical devices, connectors and holders, see Accessories section, starting

Теа

on page 37

Analog Distance Measurement Block-style housings · 41×26×12 mm

R05



Housing size		41x26x12 mm (B05)	
Measuring range		25 250 mm	
	Ordering code	BUSOOO	
010 V DO	Dert number	DUS DOEKO XACD 005 0750	
	Part number	BUS RUDKU-XAUK-U2D-570G	
Supply voltage U _B		24 V DC ±25 %	
No-load supply current I_0 max.		≤ 100 mA	
Reverse polarity/short circuit protected		yes/yes	
Ambient temperature range T _a		–10+70 °C	
Output function indicator		LED yellow	
Echo function indicator		LED green	
Degree of protection per IEC 60529		IP 67	
Temperature compensation		yes	
Ultrasonic frequency		400 kHz	
Sound cone opening		8°	
Resolution		0.2 mm	
Max. characteristic deviation		≤ 0.3 %	
Characteristic slope		adjustable	
Settings		Teach-in (remote, magnet)	
Response time		40 ms	
Material	Housing	PA	
	Sensing face	Epoxy-resin hollow-glass-spheres/PUR	
	Cover	PA	
Approvals CE		CE	
Connection		M8 connector, 4-pin	



Analog Distance Measurement Block-style housings · 80×80×50 mm

Maxisensor



CE

Housing size		80×80×50 mm (Maxisensor)	
Measuring range		6006000 mm	
010 V DC	Ordering code	BUS000E	
	Part number	BUS Q80K0-XAER-600-S92K	
420 mA	Ordering code	BUS000F	
	Part number	BUS Q80K0-XBER-600-S92K	
Supply voltage U _B		24 V DC ±25 %	lubular
No-load supply current I max.		≤ 35 mA	Riock-style
Reverse polarity/short circuit pro	otected	yes/yes	housings
Ambient temperature range T		–20+70 °C	
Output function indicator		2× LED yellow	
Echo function indicator		LED green	
Degree of protection per IEC 60529		IP 65	
Temperature compensation		yes	
Ultrasonic frequency		80 kHz	
Sound cone opening		8°	
Resolution		1 mm	
Max. characteristic deviation		≤ 0.5 %	
Characteristic slope		adjustable	
Settings		Teach-in (remote)	
Response time		700 ms	
Material	Housing	PBT	
	Sensing face	Epoxy-resin hollow-glass-spheres/PUR	
	Cover	PBT	
Approvals		CE	
Connection		M12 connector, 5-pin, A-coded	



Electrical devices, connectors and holders, see Accessories section, starting on page 37



