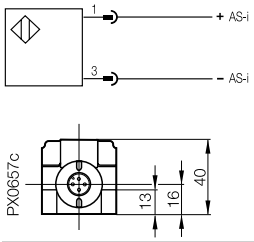
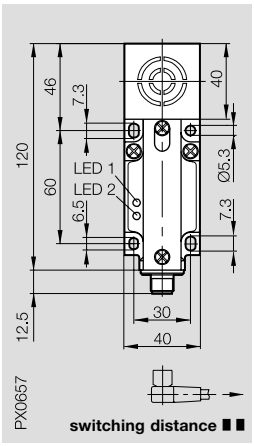
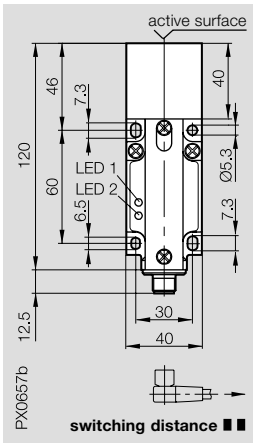
Housing size	**40×40×120** Unisensor	**40×40×120** Unisensor	**80×80×40** Maxisensor
Mounting	flush	non-flush	non-flush
Rated operating distance s_n	**20 mm**	**25/40 mm parametrizable**	**25/50 mm parametrizable**
Assured operating distance s_a	0...16.2 mm	0...20.3 mm/0...32.4 mm	0...20.3 mm/0...40.5 mm

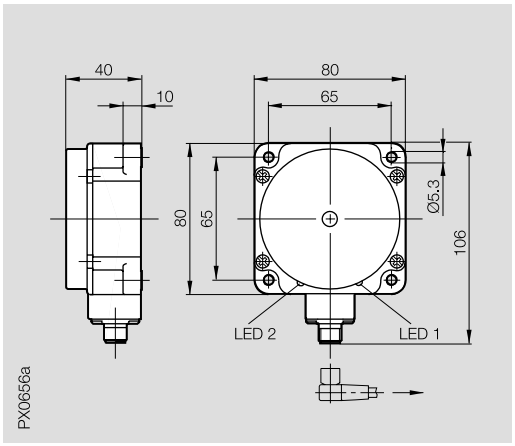
CE

Wiring diagram





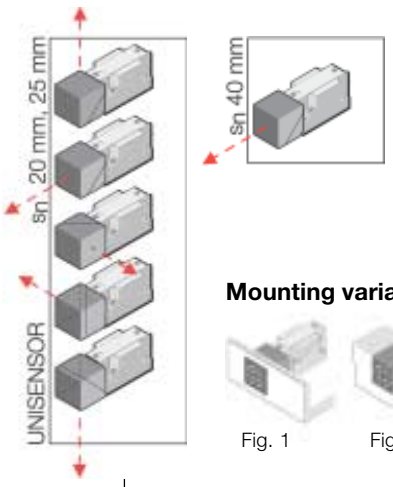




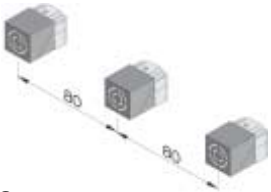
DC	BES Q40KU-A11220B-S04G	BES Q40KU-A11640F-S04G	BES Q80KA-A11650F-S04G
Supply voltage U_B	via AS-Interface®	via AS-Interface®	via AS-Interface®
Rated operational current I_e	≤ 30 mA	≤ 30 mA	≤ 30 mA
Rated insulation voltage U_i	250 V AC	250 V AC	250 V AC
Protected against polarity reversal	yes	yes	yes
Short circuit protected	yes	yes	yes
Repeat accuracy R	≤ 5 %	≤ 5 %	≤ 5 %
Ambient temperature range T_a	–25...+70 °C	–25...+70 °C	–25...+70 °C
Frequency of operating cycles f	50 Hz	50 Hz	50 Hz
Function/supply voltage indication	yes/yes	yes/yes	yes/yes
Degree of protection per IEC 60529	IP 67	IP 67	IP 67
Insulation class	⧈	⧈	⧈
Housing material	PBT	PBT	PBT
Material of sensing face	PBT	PBT	PBT
Connection	connector	connector	connector
Recommended connector	BKS-B 19/BKS-B 20	BKS-B 19/BKS-B 20	BKS-B 19/BKS-B 20
Data bit assignment D0	switching state	switching state	switching state
Data bit assignment D1	not used	not used	not used
Data bit assignment D2	not used	not used	not used
Data bit assignment D3	not used	not used	not used
Parameter bit assignment P0	not used	not used	not used
Parameter bit assignment P1	inversion D0	inversion D0	inversion D0
Parameter bit assignment P2	not used	distance change	distance change
Parameter bit assignment P3	not used	not used	not used
Slave profile	S 1.1	S 1.1	S 1.1
Mounting variations allowed	Figs. 1 to 6	Figs. 4 and 6	s_n 25 mm Figs. 1 and 2 s_n 50 mm Fig. 2

Switching distance ■■ see page **1.0.**3

Connector orientation



Row mounting
flush 80 mm, non-flush 120 mm



Mounting in non-ferrous metals

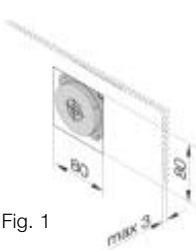


Fig. 1

Mounting in steel/ non-ferrous metals

Fig. 2

Mounting variations

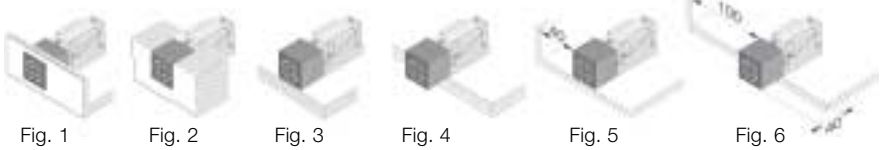


Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5 Fig. 6