



EXTREME DURABILITY IN HARSH ENVIRONMENTS

EXTREME

INDUCTIVE SENSORS

KEY ADVANTAGES

- ✓ Mechanically and chemically extremely robust
- ✓ Corrosion resistant
- ✓ IP 68 and IP 69K, sea water resistant
- ✓ Pressure resistant up to 80 bar (1160 psi)

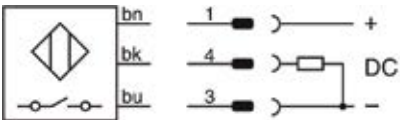
RANGE OVERVIEW	Housing size	Full Inox
EXTREME	M8	p. 83-84
	M12	p. 84-86
	M18	p. 86-88
	M30	p. 88-89
	C23	p. 90

FAMILY	
HOUSING SIZE	
OPERATING DISTANCE MM	

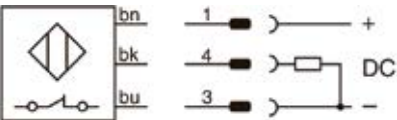
INDUCTIVE

WIRING DIAGRAMS

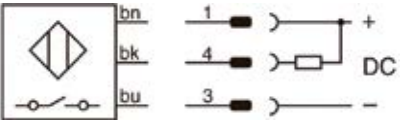
PNP NO



PNP NC

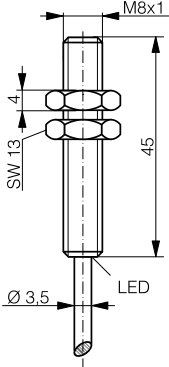
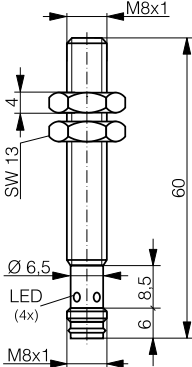
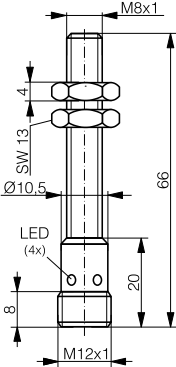
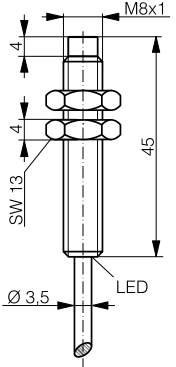


NPN NO



DATA	
Sensing face material	
Housing material	
Connection	
Degree of protection	
Mounting	
Max. switching frequency	
Supply voltage range	
Ambient temperature range	
Output current	
PNP NO	
NPN NO	
PNP NC	
Other types available	

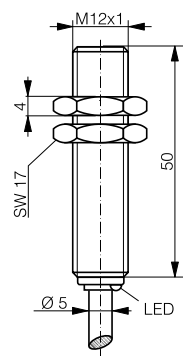
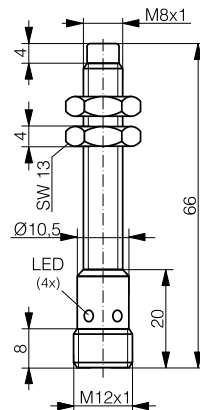
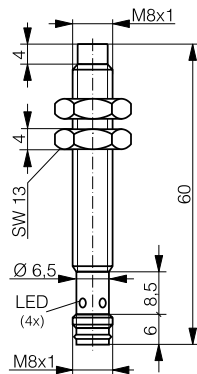
EXTREME

FULL INOX	FULL INOX	FULL INOX	FULL INOX	Inductive
M8	M8	M8	M8	
3	3	3	6	Photoelectric
				Ultrasonic
				Capacitive
				Safety
				RFID
				Connectivity
				Accessories
Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Glossary
Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	
PUR cable	Connector S8	Connector S12	PUR cable	
IP 68	IP 67	IP 67	IP 68	
Embeddable	Embeddable	Embeddable	Non-embeddable	Index
1000 Hz	1000 Hz	1000 Hz	700 Hz	
10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	
-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F	
≤ 200 mA	≤ 200 mA	≤ 200 mA	≤ 200 mA	
DW-AD-703-M8	DW-AS-703-M8-001	DW-AS-703-M8	DW-AD-713-M8	
DW-AD-701-M8	DW-AS-701-M8-001	DW-AS-701-M8	DW-AD-711-M8	
DW-AD-704-M8			DW-AD-714-M8	
NPN NC	PNP NC, NPN NC	PNP NC, NPN NC	NPN NC	

EXTREME

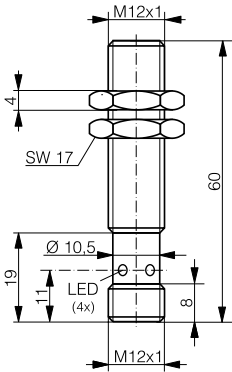
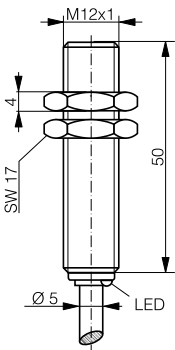
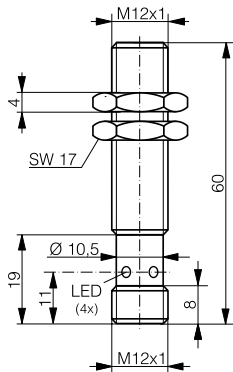
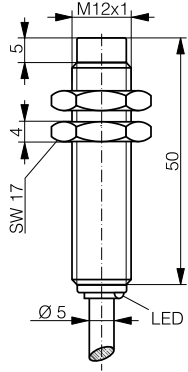
INDUCTIVE

FAMILY	FULL INOX	FULL INOX	FULL INOX
HOUSING SIZE	M8	M8	M12
OPERATING DISTANCE MM	6	6	2



DATA			
Sensing face material	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
Housing material	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
Connection	Connector S8	Connector S12	PUR cable
Degree of protection	IP 67	IP 67	IP 68 / IP 69K
Mounting	Non-embeddable	Non-embeddable	Embeddable
Max. switching frequency	700 Hz	700 Hz	850 Hz
Supply voltage range	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
Ambient temperature range	-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F
Output current	≤ 200 mA	≤ 200 mA	≤ 200 mA
PNP NO	DW-AS-713-M8-001	DW-AS-713-M8	DW-AD-703-M12-303
NPN NO	DW-AS-711-M8-001	DW-AS-711-M8	DW-AD-701-M12-303
PNP NC			
Other types available	PNP NC, NPN NC	PNP NC, NPN NC	PNP NC, NPN NC

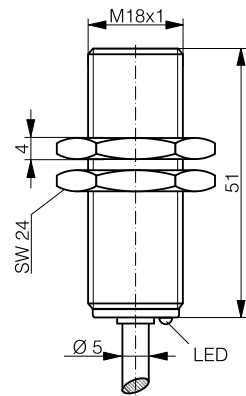
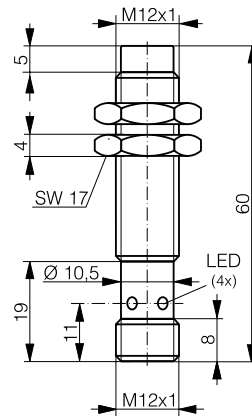
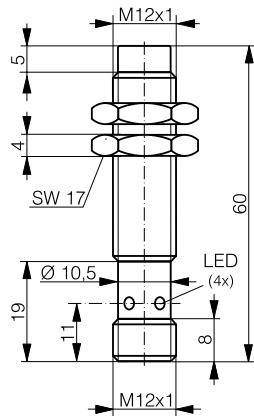
EXTREME

FULL INOX	FULL INOX	FULL INOX	FULL INOX	Inductive
M12	M12	M12	M12	
2	6	6	10	
				Photoelectric
				Ultrasonic
				Capacitive
				Safety
				RFID
				Connectivity
				Accessories
Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	
Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A	
Connector S12	PUR cable	Connector S12	PUR cable	
IP 68 / IP 69K	IP 68 / IP 69K	IP 68 / IP 69K	IP 68 / IP 69K	
Embeddable	Embeddable	Embeddable	Non-embeddable	
850 Hz	600 Hz	600 Hz	400 Hz	
10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC	
-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F	
≤ 200 mA	≤ 200 mA	≤ 200 mA	≤ 200 mA	
DW-AS-703-M12-303	DW-AD-703-M12	DW-AS-703-M12	DW-AD-713-M12	
DW-AS-701-M12-303	DW-AD-701-M12	DW-AS-701-M12	DW-AD-711-M12	
		DW-AS-704-M12		
PNP NC, NPN NC	PNP NC, NPN NC	NPN NC	PNP NC, NPN NC	

EXTREME

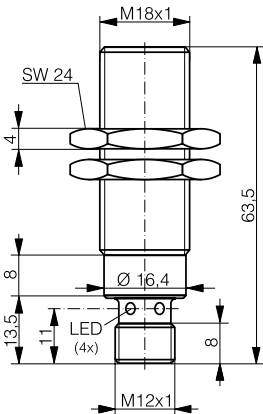
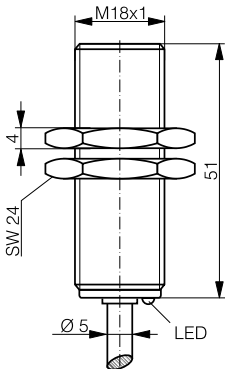
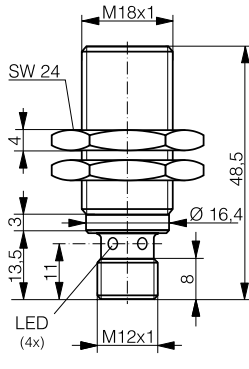
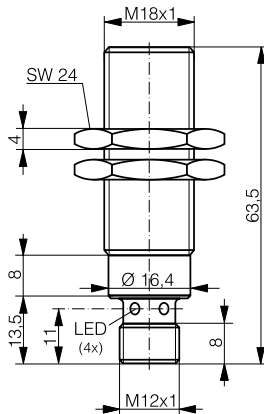
INDUCTIVE

FAMILY	FULL INOX	FULL INOX	FULL INOX
HOUSING SIZE	M12	M12	M18
OPERATING DISTANCE MM	10	15	5



DATA			
Sensing face material	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
Housing material	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
Connection	Connector S12	Connector S12	PUR cable
Degree of protection	IP 68 / IP 69K	IP 68 / IP 69K	IP 68 / IP 69K
Mounting	Non-embeddable	Non-embeddable	Embeddable
Max. switching frequency	400 Hz	220 Hz	500 Hz
Supply voltage range	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
Ambient temperature range	-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F
Output current	≤ 200 mA	≤ 200 mA	≤ 200 mA
PNP NO	DW-AS-713-M12	DW-AS-733-M12	DW-AD-703-M18-303
NPN NO	DW-AS-711-M12	DW-AS-731-M12	DW-AD-701-M18-303
PNP NC			
Other types available	PNP NC, NPN NC		PNP NC, NPN NC

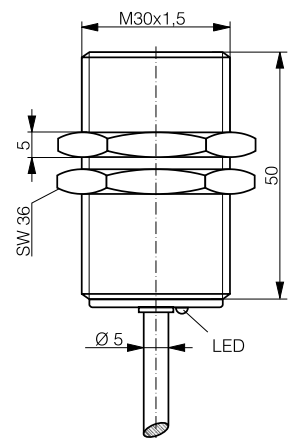
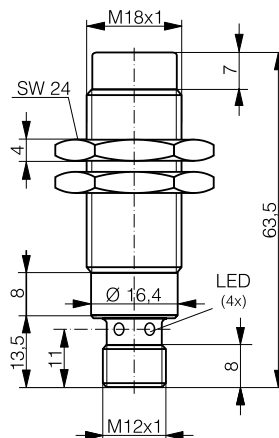
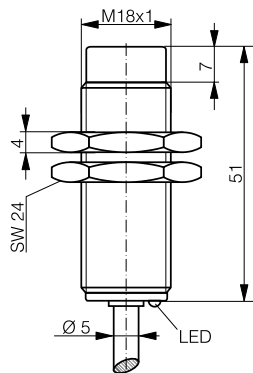
EXTREME

FULL INOX		FULL INOX		FULL INOX		FULL INOX		Inductive
M18		M18		M18		M18		
5		10		10		10		Photoelectric
								
								Capacitive
								RFID
								Accessories
								Index
Stainless steel V2A		Stainless steel V2A		Stainless steel V2A		Stainless steel V2A		
Stainless steel V2A		Stainless steel V2A		Stainless steel V2A		Stainless steel V2A		
Connector S12		PUR cable		Connector S12		Connector S12		
IP 68 / IP 69K		IP 68 / IP 69K		IP 68 / IP 69K		IP 68 / IP 69K		
Embeddable		Embeddable		Embeddable		Embeddable		
500 Hz		200 Hz		200 Hz		200 Hz		
10 ... 30 VDC		10 ... 30 VDC		10 ... 30 VDC		10 ... 30 VDC		
-25 ... +70°C / -13 ... +158°F		-25 ... +70°C / -13 ... +158°F		-25 ... +70°C / -13 ... +158°F		-25 ... +70°C / -13 ... +158°F		
≤ 200 mA		≤ 200 mA		≤ 200 mA		≤ 200 mA		
DW-AS-703-M18-303		DW-AD-703-M18		DW-AS-703-M18-120		DW-AS-703-M18-002		
DW-AS-701-M18-303		DW-AD-701-M18		DW-AS-701-M18-120		DW-AS-701-M18-002		
		DW-AD-704-M18				DW-AS-704-M18-002		
PNP NC, NPN NC		NPN NC		PNP NC, NPN NC		NPN NC		

EXTREME

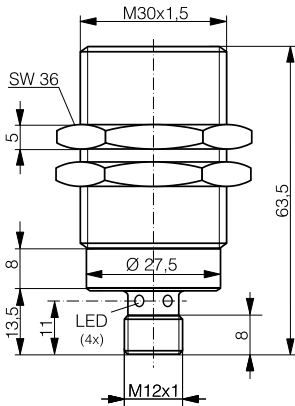
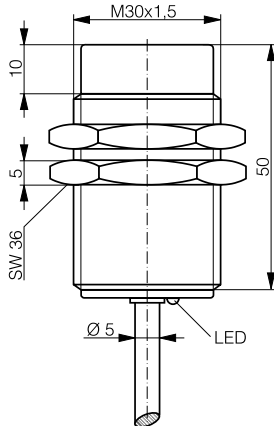
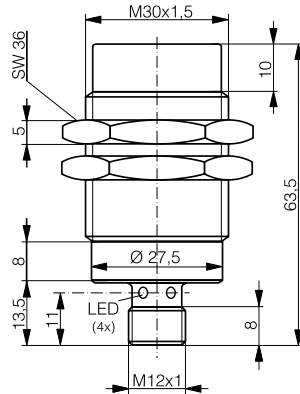
INDUCTIVE

FAMILY	FULL INOX	FULL INOX	FULL INOX
HOUSING SIZE	M18	M18	M30
OPERATING DISTANCE MM	20	20	20



DATA			
Sensing face material	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
Housing material	Stainless steel V2A	Stainless steel V2A	Stainless steel V2A
Connection	PUR cable	Connector S12	PUR cable
Degree of protection	IP 68 / IP 69K	IP 68 / IP 69K	IP 68 / IP 69K
Mounting	Non-embeddable	Non-embeddable	Embeddable
Max. switching frequency	200 Hz	200 Hz	100 Hz
Supply voltage range	10 ... 30 VDC	10 ... 30 VDC	10 ... 30 VDC
Ambient temperature range	-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F	-25 ... +70°C / -13 ... +158°F
Output current	≤ 200 mA	≤ 200 mA	≤ 200 mA
PNP NO	DW-AD-713-M18	DW-AS-713-M18-002	DW-AD-703-M30
NPN NO	DW-AD-711-M18	DW-AS-711-M18-002	DW-AD-701-M30
PNP NC			DW-AD-704-M30
Other types available	PNP NC, NPN NC	PNP NC, NPN NC	NPN NC

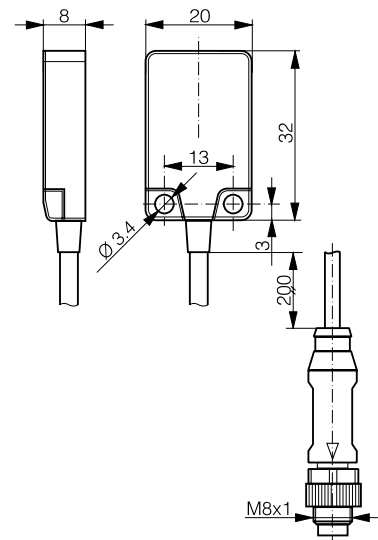
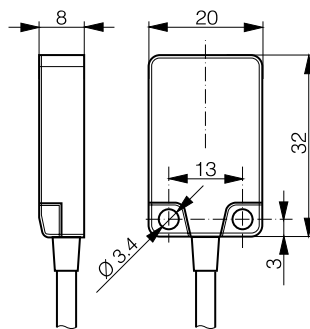
EXTREME

FULL INOX		FULL INOX		FULL INOX		Inductive
M30		M30		M30		
20		40		40		
						Photoelectric
						Ultrasonic
						Capacitive
						Safety
						RFID
						Connectivity
						Accessories
Stainless steel V2A		Stainless steel V2A		Stainless steel V2A		Glossary
Stainless steel V2A		Stainless steel V2A		Stainless steel V2A		
Connector S12		PUR cable		Connector S12		
IP 68 / IP 69K		IP 68 / IP 69K		IP 68 / IP 69K		Index
Embeddable		Non-embeddable		Non-embeddable		
100 Hz		90 Hz		90 Hz		
10 ... 30 VDC		10 ... 30 VDC		10 ... 30 VDC		
-25 ... +70°C / -13 ... +158°F		-25 ... +70°C / -13 ... +158°F		-25 ... +70°C / -13 ... +158°F		
≤ 200 mA		≤ 200 mA		≤ 200 mA		
DW-AS-703-M30-002		DW-AD-713-M30		DW-AS-713-M30-002		
DW-AS-701-M30-002		DW-AD-711-M30		DW-AS-711-M30-002		
PNP NC, NPN NC		PNP NC, NPN NC		PNP NC, NPN NC		

EXTREME

INDUCTIVE

FAMILY	FULL INOX	FULL INOX
HOUSING SIZE	C23	C23
OPERATING DISTANCE MM	7	7



DATA		
Housing material	Stainless steel V2A	Stainless steel V2A
Connection	PUR cable	Pigtail
Degree of protection	IP 68 & IP 69K	IP 68 & IP 69K
Mounting	Embeddable	Embeddable
Max. switching frequency	180 Hz	180 Hz
Supply voltage range	10 ... 30 VDC	10 ... 30 VDC
Ambient temperature range	-25 ... +85°C / -13 ... +185°F	-25 ... +85°C / -13 ... +185°F
Output current	≤ 200 mA	≤ 200 mA
PNP NO	DW-AD-703-C23	DW-AV-703-C23-276
NPN NO	DW-AD-701-C23	DW-AV-701-C23-276
Other types available		