

# Technical data, Approximate dimensions

## Inductive sensors, M 18 x 1 thread



### Inductive sensors, with thread M 18 x 1

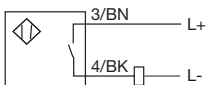
Operating distance $S_n$ , mounting		8 mm non-flush	8 mm non-flush	8 mm non-flush	12 mm quasi flush
PNP	NO			SIN8-M18N-C1-PO	SIN12-M18N-V2-PO
	NC				
	Antivalent				
NPN	NO			SIN8-M18N-C1-NO	
	Antivalent				
DC 2-wire	NO	SIN8-M18N-V2-DO			
AC	NO		SIN8-M18N-V2-AO		
	NC		SIN8-M18N-V2-AC		
	Antivalent				
Switching distance	[mm]	0 ... 6.5	0 ... 6.5	0 ... 6.48	0 ... 9.72
Reduction factor	$r_{V2A}$	0.73	0.72	0.7	0.63
	$r_{AL}$	0.43	0.42	0.5	0.26
	$r_{Cu}$	0.42	0.4	0.4	0.2
Operating voltage	[V]	6 ... 60	20 ... 253	10 ... 30	10 ... 30
Operating current	[mA]		4 ... 100	200	200 200
Switching frequency	[Hz]		1000	20	500 500
Idle current / residual current	[mA]	- / 0.7	- / 1.7	18 / -	10 / -
Line voltage drop	[V]	6	8	3	2
Short circuit protection		no	no	clocking	no
Inverse polarity protection		yes	no	yes	yes
Indication	output signal	LED yellow	LED yellow	Multi-hole LED yellow	LED yellow
	voltage	-	-	-	-
Operating temperature range	[°C]	-25 ... 70	-25 ... 70	-25 ... 70	-25 ... 70
In compliance with		EN 60947-5-2	EN 60947-5-2	EN 60947-5-2	EN 60947-5-2
Protection class acc. to ICE 60529		IP 67	IP 67	IP 67	IP 67
Connection type		2 m, PVC-cable	2 m, PVC-cable	Connector M12	2 m, PVC-cable
Conductor diameter		0.34 mm <sup>2</sup>	0.34 mm <sup>2</sup>	-	0.5 mm <sup>2</sup>
Housing material		nickel-plated brass	nickel-plated brass	nickel-plated brass	chrome-plated brass
Front face		PBT (Crastin)	PBT (Crastin)	PBT (Crastin)	PBT (Crastin)
Drawing No.		FZ080003	FZ080010	FZ080020	FZ120001

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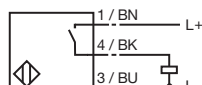
### Output signals

### Dimensions in mm

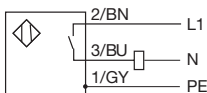
#### Output DO



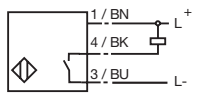
#### Output PO



#### Output AO



#### Output NO



#### Output AC

