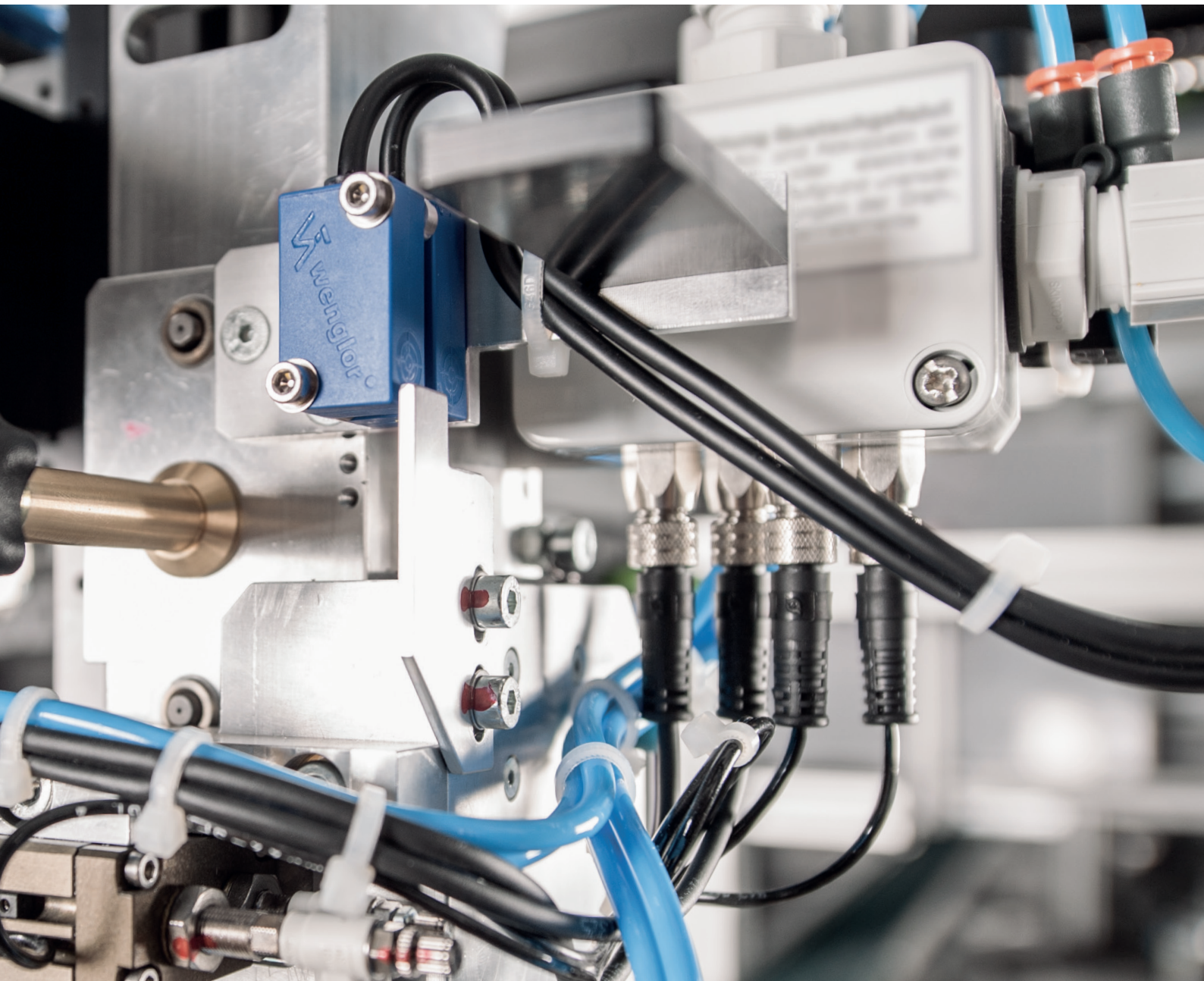


Inductive Sensors

System overview



System overview

Inductive Sensors with standard and increased switching distance

Cylindric Housing

D4 mm 

flush – 0,8 mm	
	PNP NO
Cable 2 m	25 mm
M5, 3-pin	35 mm
M8, 3-pin	42 mm

M5 

flush – 0,8 mm	
	PNP NO
Cable 2 m	25 mm
M5, 3-pin	35 mm
M8, 3-pin	42 mm

D6,5 mm 

flush – 2 mm	
	PNP NO
	PNP NC
	NPN NO
	NPN NC
Cable 2 m	37 mm
M8, 3-pin	60 mm

M8 

		flush – 2 mm				quasi-flush – 2,5 mm			quasi-flush – 4 mm				non-flush – 6 mm			
		PNP NO	PNP NC	NPN NO	NPN NC	PNP NO	PNP NC	NPN NO	PNP NO	PNP NC	NPN NO	NPN NC	PNP NO	PNP NC	NPN NO	NPN NC
Cable 2 m	27 mm	I08H051														
Cable 2 m	37 mm	I08H001	I08H002	I08H028	I08H053			I08H031	I08H009	I08H010	I08H034	I08H057	I08H017	I08H018	I08H047	I08H062
M8, 3-pin	35 mm	I08H052														
M8, 3-pin	46 mm	I08H003	I08H004	I08H054	I08H055	I08H027		I08H032	I08H011	I08H012	I08H035	I08H058	I08H019	I08H020	I08H063	I08H064
M8, 3-pin	60 mm	I08H005	I08H006	I08H029	I08H030				I08H013	I08H014	I08H059	I08H037	I08H021	I08H022	I08H065	I08H066
M12, 4-pin	70 mm	I08H007	I08H008	I08H056	I08H048				I08H015	I08H016	I08H060	I08H061	I08H023	I08H024	I08H067	I08H049

M12 		flush – 2 mm		flush – 4 mm						quasi-flush – 6 mm		quasi-flush – 8 mm				non-flush – 12 mm		
		PNP NO	NPN NO	PNP NO	PNP NC	PNP NO/NC	NPN NO	NPN NC	NPN NO/NC	PNP NO	NPN NO	PNP NO	PNP NO/NC	NPN NO	NPN NC	PNP NO	PNP NO/NC	NPN NO
Cable 2 m	37 mm			I12H001		I12H002	I12H027	I12H028		I12H024	I12H029	I12H007	I12H008	I12H055	I12H062	I12H013	I12H014	I12H040
Cable 2 m	61 mm			I12H053														
M8, 3-pin	46 mm			I12H047	I12H048					I12H049	I12H050							
M12, 3/4-pin	46 mm			I12H003	I12H022	I12H004	I12H045	I12H058		I12H025	I12H046	I12H009	I12H010	I12H056		I12H015	I12H016	I12H044
M12, 3/4-pin	60 mm	I12N001	I12N002	I12H005	I12H023	I12H006	I12H054	I12H059		I12H026	I12H060	I12H011	I12H012	I12H032		I12H017	I12H018	I12H057
M12, 4-pin	70 mm					I12H051			I12H052									

M18 

		flush – 5 mm			flush – 8 mm				quasi-flush – 12 mm				non-flush – 20 mm			
		PNP NO	PNP NO/NC	NPN NO	PNP NO	PNP NO/NC	NPN NO	NPN NO PNP NO	PNP NO	PNP NO/NC	NPN NO	NPN NO PNP NO	PNP NO	PNP NO/NC	NPN NO	NPN NO PNP NO
Cable 2 m	55 mm	I18N001	I18N002	I18N006	I18H001	I18H002	I18H023		I18H005	I18H006	I18H018		I18H009	I18H010	I18H017	
M12, 3/4-pin	50 mm				I18H030	I18H031										
M12, 3/4-pin	80 mm		I18N005			I18H028										
M12, 4-pin	65 mm	I18N003	I18N004	I18N007	I18H003	I18H004	I18H027	I18H024	I18H007	I18H008	I18H032	I18H025	I18H011	I18H012	I18H033	I18H026

M30			flush – 10 mm			flush – 15 mm		quasi-flush – 22 mm			non-flush – 35 mm				
			PNP NO	PNP NO/NC	NPN NO	PNP NO	PNP NO/NC	NPN NO	PNP NO	PNP NO/NC	NPN NO	PNP NO	PNP NO/NC	NPN NO	NPN NO PNP NO
Cable 2 m	70 mm		I30N001	I30N002	I30N005	I30H001	I30H002	I30H019	I30H005	I30H006	I30H020	I30H009	I30H010	I30H022	I30H016
M12, 4-pin	80 mm		I30N003	I30N004	I30N006	I30H003	I30H004	I30H018	I30H007	I30H008	I30H021	I30H011	I30H012	I30H023	I30H017

Mounting Consoles



Housing	flush	quasi-flush	non-flush
M8	Z08M001	Z08M002	Z08M003
M12	Z12M001	Z12M002	Z12M003
M18	Z18M001	Z18M002	Z18M003
M30	Z30M001	Z30M002	

Cubic Housing

Active Area at the sensor side

8×8 mm		flush – 2 mm				non-flush – 3 mm			
		PNP NO	PNP NC	NPN NO	NPN NC	PNP NO	PNP NC	NPN NO	NPN NC
Cable 2 m	41 mm	I1BH001	I1BH002	I1BH010	I1BH019	I1BH005	I1BH006	I1BH016	I1BH022
M8, 3-pin	50 mm	I1BH003	I1BH004	I1BH020	I1BH021	I1BH007	I1BH008	I1BH023	I1BH024

10×16 mm		flush – 3 mm				non-flush – 6 mm			
		PNP NO	PNP NC	NPN NO	NPN NC	PNP NO	PNP NC	NPN NO	NPN NC
Cable 2 m	28 mm	I1CH001	I1CH002	I1CH012	I1CH013	I1CH005	I1CH006	I1CH011	I1CH016
M8, 3-pin	37 mm	I1CH003	I1CH004	I1CH014	I1CH015	I1CH007	I1CH008	I1CH009	I1CH017

10×36 mm		flush – 6 mm				non-flush – 10 mm			
		PNP NO	PNP NC	NPN NO	NPN NC	PNP NO	PNP NC	NPN NO	NPN NC
M8, 3-pin	68 mm	I1DH001	I1DH002	I1DH006	I1DH007	I1DH003	I1DH004	I1DH005	I1DH008

40×40 mm		flush – 20 mm			non-flush – 35 mm		non-flush – 40 mm		
		PNP NO	PNP NO/NC	NPN NO	PNP NO/NC	NPN NO/NC	PNP NO	PNP NO/NC	NPN NO
M12, 4-pin	70 mm	I1QH001	I1QH002	I1QH011	I1QH008	I1QH007	I1QH003	I1QH004	I1QH012
									PNP NO

Active area on the sensor top

8×8 mm		non-flush – 3 mm	
		PNP NO	NPN NO
Cable 2 m	41 mm	I1BH014	I1BH018

Inductive Sensors with IO-Link



	M8		M12		M18		M30		40×40 mm	
	quasi-flush	non-flush	quasi-flush	non-flush	quasi-flush	non-flush	quasi-flush	non-flush	flush	non-flush
	4 mm	6 mm	6 mm	12 mm	12 mm	20 mm	22 mm	35 mm	20 mm	40 mm
M12, 4-pin	I08H025	I08H026	I12H019	I12H020	I18H013	I18H014	I30H013	I30H014	I1QH005	I1QH006

Inductive Sensors with Full-Metal Housing



		M12		M18		M30	
		flush	non-flush	flush	non-flush	flush	non-flush
		4 mm	6 mm	8 mm	12 mm	15 mm	25 mm
M12, 4-pin	PNP NO	IB040DE65UB3	IB060SE65UB3				
M12, 4-pin	PNP NC	IB040DE65UD3	IB060SE65UD3				
M12, 4-pin	PNP NO/NC			IW080DE65UA3	IW120SE65UA3	IX150DE65UA3	IX250SE65UA3

Inductive Sensors with Analog Output



		M18		M30	
		flush 1,5...4,5 mm	non-flush 2...7 mm	flush 2...8 mm	non-flush 3...13 mm
		IW045CM65MG3	IW070RM65MG3	IX080CM65MG3	IX130RM65MG3
M12, 4-pin	0...10 V				

Inductive Sensors with Selective Performance



		flush – 15 mm	non-flush – 25 mm
		PNP NO/NC	PNP NO/NC
40×40 mm	Non-Ferromagnets	ISQ150BK00A3	ISQ250NK00A3
40×40 mm	Ferromagnets	ISQ150BK01A3	ISQ250NK01A3

Inductive Sensors Welding-Field Resistant with Correction Factor 1



		M12		M18		M30		40×40 mm	
		flush	non-flush	flush	non-flush	flush	non-flush	flush	non-flush
		4 mm	10 mm	8 mm	15 mm	15 mm	30 mm	20 mm	50 mm
M12, 4-pin	PNP NO/NC	I12A001	I12A002						
M12, 4-pin	PNP NO/NC			I18A001	I18A002	I30A001	I30A002		
M12, 4-pin	PNP NO/NC							I1QA001	I1QA002

Inductive Sensors for Extreme Temperature Ranges



		non-flush – 25 mm	non-flush – 40 mm	non-flush – 25 mm
		–10...250 °C	–10...250 °C	–60...450 °C
Cable, 5 m	PNP NO/NC	INTT003	INTT103	INRT003
Cable, 10 m	PNP NO/NC	INTT007	INTT107	INRT007
Cable, 15 m	PNP NO/NC	INTT009	INTT109	INRT009
Cable, 20 m	PNP NO/NC	INTT011	INTT111	INRT011



		non-flush – 25 mm	non-flush – 40 mm
		–10...250 °C	–10...250 °C
Cable, 1 m	IO-Link, PNP NO/NC	INTT201	INTT301
Cable, 5 m	IO-Link, PNP NO/NC	INTT203	INTT303
Cable, 10 m	IO-Link, PNP NO/NC	INTT207	INTT307
Cable, 15 m	IO-Link, PNP NO/NC	INTT209	INTT309
Cable, 20 m	IO-Link, PNP NO/NC	INTT211	INTT311
Cable, 30 m	IO-Link, PNP NO/NC	INTT213	INTT313