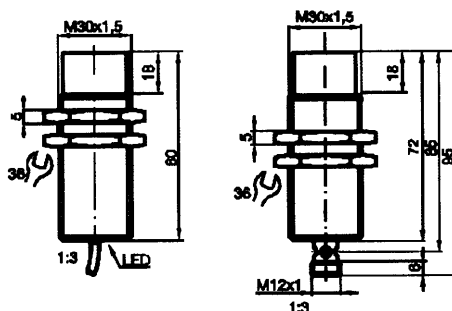


AS-interface Sensor

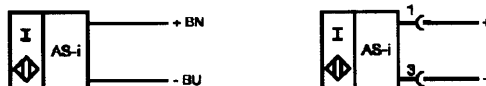
Inductive

- nominal switching distance 15 mm
- programmable direction of application
- type of protection IP 67
- pre-failure warning and display



Operating distance s_n , mount.	15 mm, non-embeddable	15 mm, non-embeddable	Programming information
Model Number	NCN15-30GM80-B3	NCN15-30GM80-B3-V1	Address preset 00, changeable via bus master or programming device
Connection [mm ²]	2 m PVC cable 2 x 0.34	M12 round connector 1(+), 3(-)	IO code 1 ID code 1
Switching element function	make / break programmable	make / break programmable	Data bit
Working switch dist. s_n [mm]	0 ... 12.1	0 ... 12.1	Bit Function
Reduction factor	V2A: 0.72 / AI: 0.38 Cu: 0.36 / Ms: 0.45	V2A: 0.72 / AI: 0.38 Cu: 0.36 / Ms: 0.45	D0 switching output D1 function reserve (dynamic) D2 ready D3 not used
Repeatability R S_r	0.1	0.1	Parameter bit
Hysteresis H [%]	typ. 5	typ. 5	Bit Function
Meas. plate (1mm Fe) [mm]	45 x 45	45 x 45	P0 not used P1 switching output, make-switch / break-switch (NO / NC) P2 not used P3 not used
Operating voltage U_e	via AS-i bus system	via AS-i bus system	*standard setting
Operating current I_e [mA]	≤ 25	≤ 25	
Switching frequency f [Hz]	≥ 50	≥ 50	
Ready delay t_r [s]	≤ 1	≤ 1	
Indicators			
switching state (D0=1)	LED yellow	multihole LED yellow	
supply voltage	LED green	-	
function reserve F_x (stat.)	LED red	-	
Insulation voltage U_i [V]	≥ 500	≥ 500	
Fulfilled standard	EN 60947-5-2	EN 60947-5-2	
Ambient temperature t_a [°C]	-25 ... +70	-25 ... +70	
Storage temperature t_s [°C]	-40 ... +85	-40 ... +85	
Type of prot. acc. to EN 60 529	IP 67	IP 67	
allowable shock and vibration stress	$b \leq 30 \text{ g}$, $T \leq 11 \text{ ms}$ $f \leq 55 \text{ Hz}$, $a \leq 1 \text{ mm}$	$b \leq 30 \text{ g}$, $T \leq 11 \text{ ms}$ $f \leq 55 \text{ Hz}$, $a \leq 1 \text{ mm}$	
Housing material	stainless steel	stainless steel	
	To be replaced shortly with NCN15-30GM70-B3(-V1) with shorter sleeve (70 mm)	To be replaced shortly with NCN15-30GM70-B3(-V1) with shorter sleeve (70 mm)	

Standard symbol, connection diagram:

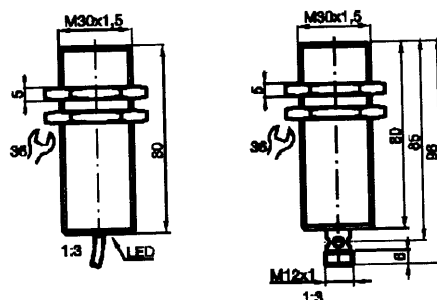


Issue date 27.02.1997

AS-interface Sensor

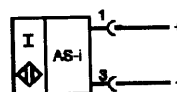
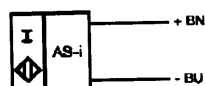
Inductive

- nominal switching distance 10 mm
- programmable direction of application
- type of protection IP 67
- pre-failure warning and display



Operating distance s_{op} , mount.	10 mm, embeddable	10 mm, embeddable	Programming information Address preset 00, changeable via bus master or programming device IO code 1 ID code 1
Model Number	NCB10-30GM80-B3	NCB10-30GM80-B3-V1	
Connection [mm ²]	2 m PVC cable 2 x 0.34	M12 round connector 1(+), 3(-)	
Switching element function	make / break programmable	make / break programmable	
Working switch dist. s_{op} [mm]	0 ... 8.1	0 ... 8.1	Databit Bit Function D0 switching output D1 function reserve (dynamic) D2 ready D3 not used
Reduction factor	V2A: 0.72 / AI: 0.34 Cu: 0.32 / Ms: 0.43	V2A: 0.72 / AI: 0.34 Cu: 0.32 / Ms: 0.43	
Repeatability R S_r	0.1	0.1	
Hysteresis H [%]	typ. 5	typ. 5	
Meas. plate (1mm Fe) [mm]	30 x 30	30 x 30	Parameter bit Bit Function P0 not used P1 switching output, make-switch / break-switch (NO / NC) P2 not used P3 not used *standard setting
Operating voltage U_B	via AS-i bus system	via AS-i bus system	
Operating current I_o [mA]	≤ 25	≤ 25	
Switching frequency f [Hz]	≥ 70	≥ 70	
Ready delay t_r [s]	≤ 1	≤ 1	
Indicators			
switching state (D0=1)	LED yellow	multihole LED yellow	
supply voltage	LED green	-	
function reserve F_k (stat.)	LED red	-	
Insulation voltage U [V]	≥ 500	≥ 500	
Fulfilled standard	EN 60947-5-2	EN 60947-5-2	
Ambient temperature t_a [°C]	-25 ... +70	-25 ... +70	
Storage temperature t [°C]	-40 ... +85	-40 ... +85	
Type of prot. acc. to EN 60 529	IP 67, all-insulated	IP 67, all-insulated	
allowable shock and vibration stress	$b \leq 30 \text{ g}$, $T \leq 11 \text{ ms}$ $f \leq 55 \text{ Hz}$, $a \leq 1 \text{ mm}$	$b \leq 30 \text{ g}$, $T \leq 11 \text{ ms}$ $f \leq 55 \text{ Hz}$, $a \leq 1 \text{ mm}$	
Housing material	stainless steel	stainless steel	

Standard symbol, connection diagram:



Issue date: 27.02.1997

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