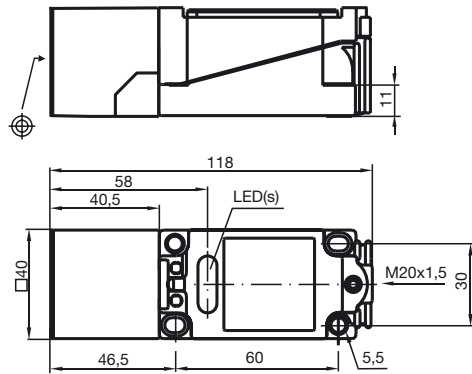


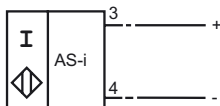
Basic series
 20 mm embeddable
 NO/NC programmable
 Position of the sensor head
 adjustable
 Oscillator monitoring



General specifications	
Switching element function	NO/NC programmable
Rated operating distance s_n	20 mm
Installation	embeddable
Assured operating distance s_a	0 ... 16.2 mm
Reduction factor r_{Al}	0.4
Reduction factor r_{Cu}	0.35
Reduction factor r_{V2A}	0.85
Nominal ratings	
Operating voltage U_B	26.5 ... 31.9 V via AS-i bus system
Switching frequency f	0 ... 150 Hz
Hysteresis H	1 ... 15 typ. 5 %
Reverse polarity protection	Protected against reverse polarity
Design data	
Operating voltage display	LED, green
Indication of the switching state	LED, yellow
Standard conformity	
EMC in accordance with	IEC / EN 60947-5-2:2004
Standards	IEC / EN 60947-5-2:2004
Ambient conditions	
Ambient temperature	-25 ... 70 °C (248 ... 343 K)
Storage temperature	-40 ... 85 °C (233 ... 358 K)
Mechanical specifications	
Connection type	terminal compartment
Core cross-section	up to 2.5 mm ²
Housing material	PBT
Sensing face	PBT
Protection degree	IP68

Connection type:

B3



Programming Instructions

Address 00 preset, alterable via Busmaster or programming units
 IO-Code 1
 ID-Code 1

Data bit

Bit	Function
D0	switching state ¹⁾ (0 = damped; 1 = undamped)
D1	not used
D2	oscillator monitoring (0= oscillator defective, 1=normal operation)
D3	not used

Parameter bit

Bit	Function
P0	not used
P1	switching element function ²⁾ (0 = NC; 1 = NO)
P2	not used
P3	not used

¹⁾ Applies to NO funktion (P1 = 1; preset), with NC funktion (P1 = 0) reversed characteristics
²⁾ Default setting: NO