Proximity Sensors Inductive Short body, Stainless Steel Housing Types IA, M5 w/short-circuit protection Miniature stainless steel housing M5 Short body Sensing distance: 1.0 mm (0.8 mm for IA05BSF10NCP only) Power supply: 10 to 30 VDC • Output: Transistor NPN/PNP, normally open or normally closed Protection: Reverse polarity and short-circuit protection LED-indication for output ON 2 m PVC cable or M8 plug **Product Description** Ordering KeylA 05 BSF 10 NO M5 P Miniature inductive proximity sensor with reduced body length. Outputconfiguration for NPN/PNP with bothNO and NC typesas standard. M5 stainless steel housing. Connection with 2 m PVC cable or M8 plug. Ind. prox. switch Housing style Housing size Housing material Housing length Detection principle Sensing distance Output type **Output configuration Connection Protected** Type Selection Rated Conn.Ordering no.Ordering no. Ordering no.Ordering no. operating typeTransistor NPNTransistor NPN Transistor PNPTransistor PNP dist. (Sn) Normally open Normally closed Normally open Normally closed 0.8 mm 1)CableIA 05 BSF 10 NC P 1.0 mm 1)CableIA 05 BSF 10 NO P IA 05 BSF 10 PO P IA 05 BSF 10 PC P 1.0 mm 1)Plug IA 05 BSF 10 NO M5 PIA 05 BSF 10 NC M5 P IA 05 BSF 10 PO M5 PIA 05 BSF 10 PC M5 P 1) For flush mounting in metal Specifications Rated operational volt. (UB) 10 to 30 VDC (ripple included) Ripple $\leq 10\%$ Rated operational current (le) Continuous≤ 200 mA No-load supply current (Io) \leq 10 mA (ON) Voltage drop (Ud) < 1.0 V (@ Imax) Protection Reverse polarity and short-circuit protection Ambient temperature Operating-25° to +70°C (-13° to +158°F) Storage -30° to +75°C (-22° to +167°F) Degree of protection IP 67 (Nema 1, 3, 4, 6, 13) Housing materialStainless steel, AISI 303 **CE-markingYes** Connection Cable2 m, PVC, oil proof Frequency of operating cycles (f)2000 Hz Indication for output ONLED, yellow Effective operating dist. $(Sr)0.9 \times Sn \le Sr \le 1.1 \times Sn$ Usable operating dist. (Su) 0.85 x Sr \leq Su \leq 1.15 x Sr AWG 26/3 x 0.15 mm2 Plug M8, CONH5A-xxx Serie Specifications are subject to change without notice (06.06.13) 1