

M12 12mm Analog Inductive Metal Housing 0-6mm range 0-10VDC & 4-20mA Output



M12 12mm
Miniature Inductive Proximity Sensor

Analog Output 0-10V & 4-20mA

0-6mm range

4 wire 10-30VDC

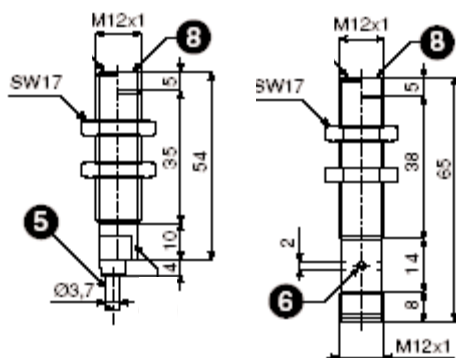
quasi-embeddable 3X ranges

2 meter standard integrated cable

IP67 protection degree

protection from electrical damages

NBT nickel plated brass housing



- 5 M1 cable 3x0.055mm, 3.1mm diameter, PUR, 2m
- 6 K1 4 pin 12mm connector
- 8 Quasi-shielded version

Parts Matrix

inductive sensor series	X
M12 12mm diameter body	12
standard diameter-standard ranges	D
nickel plated brass	B
4 wire device	4
Analog Output 0-10V & 4-20mA	Y
shielded (quasi)	S
2m standard integrated cable	M1
M12 4 Pin 12mm connector	K1
range (mm)	0-6mm

PARTS INDEX

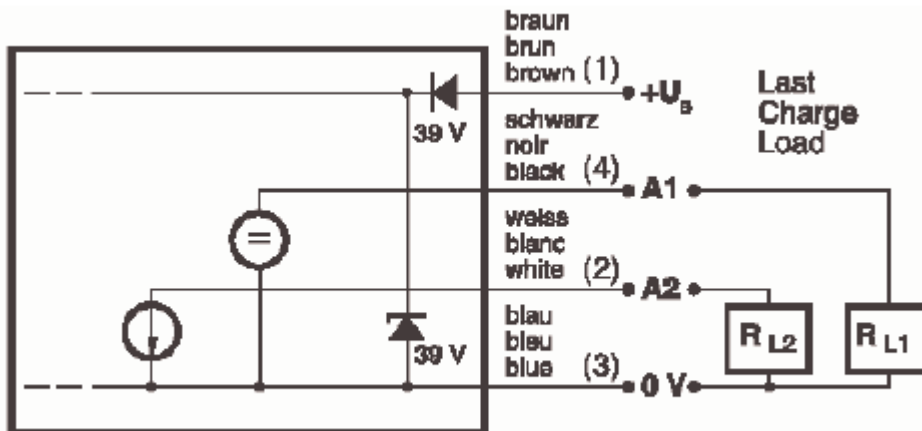
X12DB4YSM1
X12DB4YSK1

SPECIFICATIONS

M1 CABLE
K1 CONNECTOR

Wiring Diagram

K1 Connection Diagram



Technical Specifications

Sensing Distance S _d	0-6mm
Differential Travel	10% Typ
Standard Target	18x18x1mm
Repeat Accuracy R	0.3mm (U _B = 20-30VDC T _A = 23 degree C +/- 5 degree C)
Supply Voltage Range U _B	10-30VDC
Output Voltage A1	
S = 0mm	+0 V +/- 0.4V (23C) 4mA+-0.8mA (23C)
S = 1/2S _d	+5.2 V +/- 0.4V (23C) 20mA+-0.8mA (23C)
S = S _d	+10 V +/- 0.4V (23C)
Output Current A2	
S = 0mm	4mA+-0.8mA (23C)
S = S _d	20mA+-0.8mA (23C)
Ripple U _{pp}	<20% U _b
No-load Supply	12mA
Load Current I _a	<10mA
Leakage Current	<10uA
Voltage Drop U _d	1.2V max.
Output Type	analog 0-10V & 4-20mA
Cut Off Frequency (-3dB 1/2S _d)	1000Hz
Time Delay Before Availability t _v	50ms
Supply Electrical Protections	polarity reversal, transient
Output Electrical Protections	short circuit protection (autoreset)
Ambient Temperature T _a	-25--+70C
Temperature Drift	<10%
Protection Degree (DIN 40 050)	IEC IP67
Housing Material	Chrome Plated Brass
Sensing Face Material	PBT
Weight (approximate)	65g (M1) 25g (K1)