



#### **Features**

- Multiple circuit designs available
- Various housing forms and thread sizes for mounting (M12 / M18 / M30)
- Special models for enhanced pressure capability up to 50 bar
- Customized versions available according to individual needs
- Max. continuous load up to 200mA
- Additional magnetic field sensor available
- Temperature range
  -40°C to 80°C / 100°C

#### **Applications**

- Commercial and military vehicles
- · Automotive equipment
- · General mechanical engineering
- Appliance and industrial engineering
- Marine applications

# KISSLING INDUCTIVE PROXIMITY SWITCH

Military Series - from TE Connectivity (TE)

# Switch for crucial applications

These inductive proximity switches are designed to meet crucial applications with enhanced environmental requirements. These switches are precise and provide reliable and consistent switching performance even under tough conditions.

These switches all have a closed steel or thermoplastic housing and are sealed in accordance with the IP67 standard.

Our inductive proximity switches are based upon the principle of an attenuated LC-oscillator. The oscillator circuit coil generates a high frequency magnetic field. This scattering field radiates from the proximity switch sensing face. If this field is penetrated by ferrous or non-ferrous metals (pickup range), energy is reduced and thereby the oscillator will be "attenuated". The result of changing current consumption is evaluated and allows a precise switching function.

# **Specification**

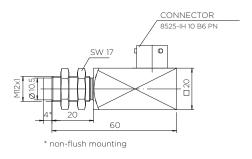
#### **Electrical Data**

Voltage range	10 - 32VDC
Nominal voltage	24VDC
Ripple voltage	10%
Individual input current NC active / passive	< 1mA / < 15mA
Individual input current NO active / passive	< 15mA / < 1mA
Nominal current	< 200mA
Residual stress	< 2VDC @ 200mA
Repetition rate of sensing	≤1000Hz
Operating time	100%
Polarity protection	included
Short circuit protection	pulsed
EMV firmness	version dependent
<b>Environmentally Characteristics</b>	
Switching hysteresis	typ. 0.1mm / 0.2mm
Reproduce ability	≤ 0.01mm
Temperature drift	+/- 10%
Temperature range	-40°C to 80°C / 100°C
Protection	IP67 / IEC 60529

# **Technical drawings**

LK12.2033.2 Sn\* = 2mm LK12.2033.4 Sn = 4mm

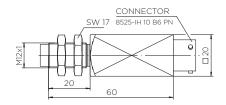
for example NPN-NO with 2 control inputs for service



<sup>\*</sup>Sn = Rated operating distance

## LK12.2034.2 Sn = 2m

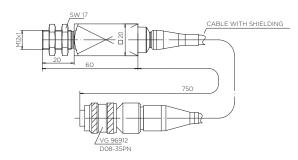
for example NPN-NO with 2 control inputs for service



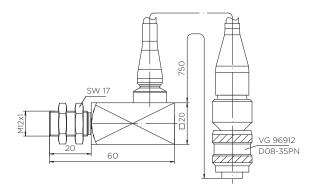
# **Technical drawings**

#### LK12.2037.2 Sn = 2mm (flush)

for example NPN-NO with 2 control inputs for service

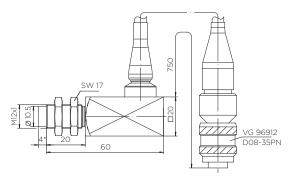


#### LK12.2035.2 Sn = 2mm (flush)



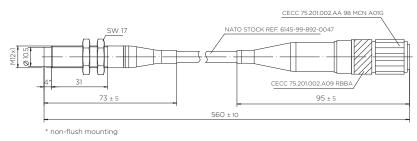
### LK12.2036.4 Sn = 4mm (non-flush)

for example NPN-NO with 2 control inputs for service



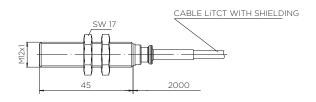
#### LA12.2120.4 Sn = 4mm - All parts are high quality sea water resistant material

for example PNP-NO with shielded cable



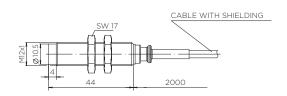
# LK12.2148.2 Sn = 2mm (flush)

for example PNP-NO with ground



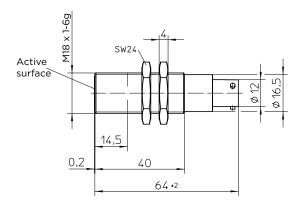
## LK12.2148.4 Sn = 4mm

for example PNP-NO



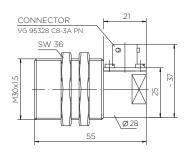
#### LK18-2180-5 Sn = 5mm (flush)

for example PNP-NC



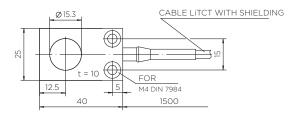
#### LK30.2150.8 Sn = 8mm (flush)

for example PNP-NO

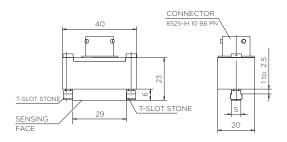


#### L410.2147.5 Sn = 5mm

for example PNP-NO

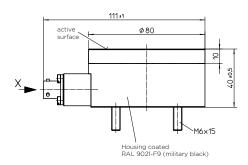


## M515.2138 Magnetic field sensor for example NPN-NO



#### L-05-2173 Sn = 40mm

for example PNP-NO



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