

Installation and Operating Instructions for Limit Switch Type 055.009.6 (Contactless, Magnetic Field-resistant)

(B.0550096.GB)

Manufacturer's Declaration

This product is intended for installation in a machine or system, based on the machine directive 98/37/EC. It is forbidden to start use of the product until the machine or system into which it should be built is operating in accordance with the EC directives.

The product corresponds to the low voltage directive 73/23/EEC.



Safety Regulations Danger!

To prevent injury or damage, only professionals and specialists should work on the devices, following the relevant standards and directives. Please read the Installation and Operational Instructions carefully before installation and initial operation of the device.

- Please check switch adjustments for function by simulating operating conditions before initial start-up



Warning:

Without a conformity inspection, this product is not suitable for use in areas where there is a high danger of explosion. This statement is based on directive 94/9 EC (ATEX directive).

Application

The magnetic field-resistant limit switch is used for monitoring and measuring axial or radial mechanical movements and adjustments e.g. on EAS®-clutches. Magnetic field-resistant or welding-resistant proximity switches are used where strong magnetic fields can influence the function of the proximity switch. For example, they can be used in the field of strong magnetic coils as well as welding guns or welding electrodes with high welding currents.

Function

When the sensor surface (damped) scans a metal control flag, the signal level changes from the applied U input voltage to 0 volt.



Electrical Connection

1	L+	BN (brown)
2	NC	BK (black)
3	L-	BU (blue)
4		not connected

Technical Data

Size	M12 x 1
Type	Rust-proof stainless steel, PTFE-coated
Input voltage	10 - 30 VDC PELV
No-load supply current	≤20 mA
Power capacity	200 mA
Freq. of operating cycles	max. 1000 Hz
Contact	PNP-NC, 3-wire sensor
Operating distance s_n	2 mm, flush installation
Assured operating distance s_a	1.6 mm
Repeat accuracy	≤5 %
Characteristics	reverse polarity-protected, short-circuit-resistant, function indicator
Connection	plug-in connector, cable 5 m/PUR
Tightening torque	40 Nm
Ambient temperature	-25 °C up to +100 °C
Protection	IP 67

Dimensions (mm)

