

Characteristics

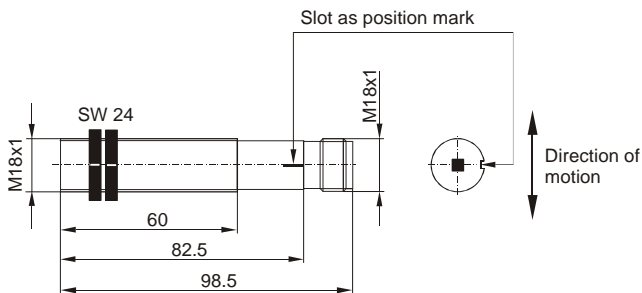
Speed detection and detection of laterally approaching and/or bypassing soft iron edges

High geometrical resolving power (module 1)

Push-pull output (plus- and minus switching)

Attention: Hall element switches are neither suitable for the detection of not magnetizable materials nor for axial approaching

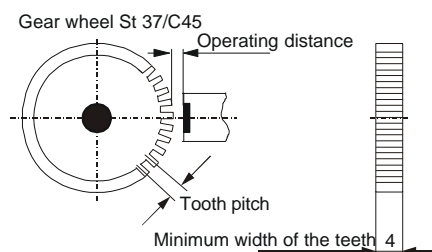
Dimensions



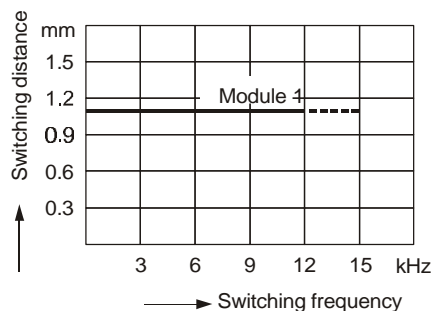
Technical data

rated switching distance s_n (10kHz)	1 mm with module 1
real switching distance s_r	$s_n (1 \pm 10\%)$
operating voltage U_b	10 ... 24 ... 30 VDC
permissible ripple voltage	10%
current consumption without load	25 mA
output	push-pull
max. current loading capability of the output I_L	25 mA
voltage drop with $I_L = 25$ mA	10 V
temporary short-circuit protection	20 s
switching frequency	0 Hz ... 12 kHz
ambient temperature range	- 25 ... + 100 °C
operating display	no
reversion polarity protection	yes
connection	plug connection M18, 4-pole
maximum cable length	150 m
weight	150 g
housing material	steel, nickel-plated
front surface material	plastic (Crastin)
maximum tightening torque	40 Nm
Protection type according to IEC 60 529	IP 65
EMC	conform EN 61000

Mounting instructions



Switching distance as a function of module and frequency



Notes

Housing has to be aligned vertically towards the tooth slopes.

Keep away metal splinters from the active surface.

Avoid use near strong magnetic fields.

The distance of the connecting cable to the control cables of the inductive consumers should be 30 cm.

Hall element switches are not suitable for the detection of magnetizable materials.

After having been switched on, the output signal may show a low- or high status without being operated.

Certification

Produced according to DIN ISO 9001

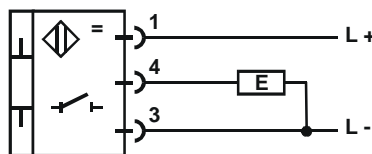


Safety regulations

Connection, start-up and maintenance may only be accomplished by specialists or instructed personnel.

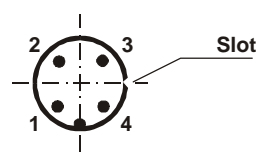
Connection

DC-voltage, three-pole, push-pull output plug connection



Plug

M18, 4-pole



This description is subject to technical changes!