LINEPULS
Programmable linear incremental encoder

lika

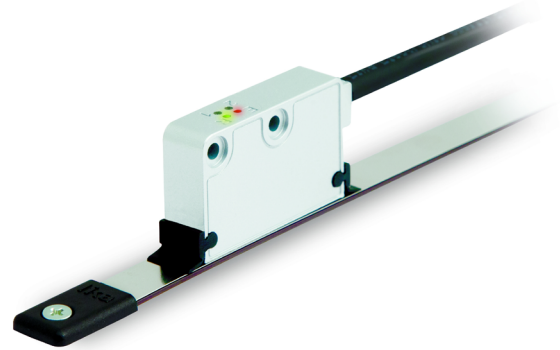| Series	SME54

- Programmable resolution and index width
- Set-up via PC software
- Gap clearance up to 2 mm
- Lika hi-flex sensor cable for drag cable chains
- Status LED for gap and speed
- Reference mark LKM1309/5 to be installed along the magnetic tape
- Optional tape cleaning wipers

SME54

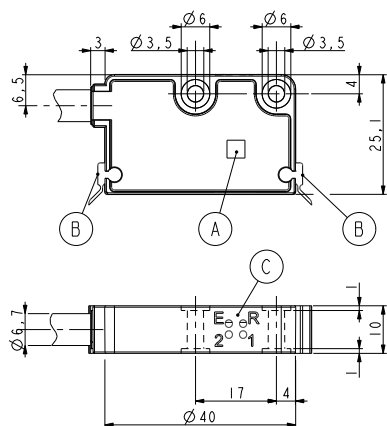| ENVIRONMENTAL SPECIFICATIONS	
Shock:	250 g, 6 ms acc. to CEI EN 60068-2-27
Vibrations:	10 g, 5-2000 Hz acc. to CEI EN 60068-2-6
Protection:	IP67
Operating temperature range:	-25°C ÷ +85°C (-13°F +185°F)
Storage temperature range:	-40°C ÷ +100°C (-40°F +212°F)

MECHANICAL SPECIFICATIONS	
Dimensions:	see drawing
Housing material:	die cast aluminium, UNI EN AC-46100
Electrical connections:	Lika Hi-flex cable M10 2,0 m 0,5 ÷ 1 m cable T12 with M12 12 pin inline plug
Gap between sensor/tape (without cover strip):	0,1 ÷ 2,0 mm
Travel speed (mechanical):	max 10 m/s
Measurement length:	Tape length -5 mm each side

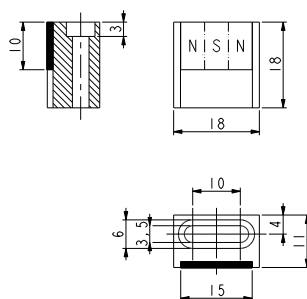| ELECTRICAL SPECIFICATIONS	
Resolution:	programmable from 1250 µm to 0,08 µm (default: 5 µm)
Sensor accuracy:	±10 µm max.
Repeat accuracy:	±1 increment
Output circuits:	Line Driver, Push-Pull
Output signals:	AB0 /AB0
Counting frequency:	Push-Pull: 3 MHz max. @ 24Vdc, cable 1 m Line Driver: 5 MHz max. @ 5Vdc, cable 1 m
Power supply:	+5Vdc ±5%, +10Vdc ÷ +30Vdc
Power consumption:	70 mA max.
Protection:	against inversion of polarity and short-circuit
EMC:	acc. to EN 61000-6-2 level 3

ACCESSORIES	
MT50:	Magnetic tape
LKM-1309/5:	Reference pole support
KIT LKM-1440:	Set of tape terminals
KIT WIPERS:	Wipers for SMExx/SMSxx (10 pcs)
KIT PS1-1,0:	Protection profile (10 pcs)
EC-M12F12-LK-T12-5	M12 cordset with 5 m cable
EC-M12F12-LK-T12-10	M12 cordset with 10 m cable
KIT IP/IQ58:	Programming kit
EC-IP/IQ58-M12	M12 programming cable

Specifications subject to changes without prior notice
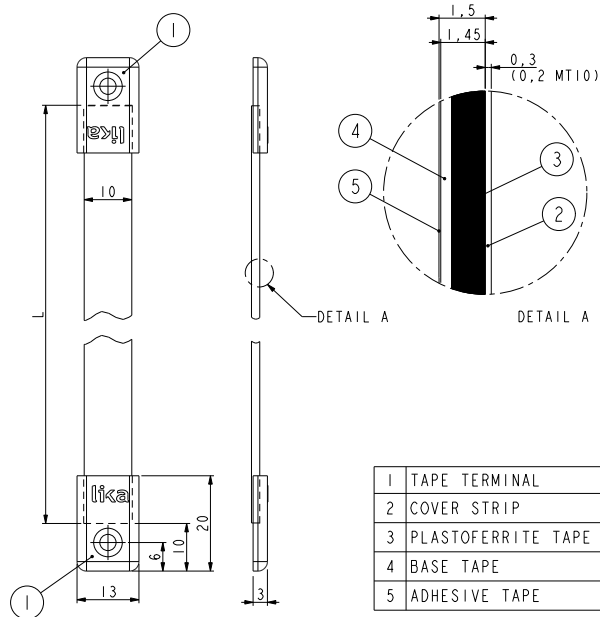
A	Reference sensor "R"
B	Dust wipers
C	Diagnostic LEDS

E: Gap/Speed error (red)
R: Reference detection (green)
I: Power ON (green)
2: Gap/Speed warning (red)

SME54

LKM-1309/5

I	TAPE TERMINAL
2	COVER STRIP
3	PLASTOFERRITE TAPE
4	BASE TAPE
5	ADHESIVE TAPE

MT50

Order code – Sensor

SME54	–	XX @(a)	–	X @(b)	–	PROG @(c)	–	X @(d)	–	XX @(e)	/Sxxx @(f)

ⓐ OUTPUT CIRCUITS
Y = Push-Pull (AB)
YC = Push-Pull (AB, /AB)
L = Line Driver (AB, /AB)

ⓑ POWER SUPPLY
1 = +5Vdc ±5% (L output circuit)
2 = +10Vdc ÷ +30Vdc (Y and YC output circuit)

ⓒ RESOLUTION
PROG

ⓓ INDEX
R = unique reference signal

ⓔ CONNECTIONS
L2 = cable output 2 m
M0,5 = 0,5 m cable + M12 12 pin inline plug
M1 = 1 m cable + M12 12 pin inline plug

ⓕ CUSTOM VERSION

Order code – Magnetic tape

MT50	–	XXX @(a)	–	XXX @(b)	–	X @(c)	–	/Sxxx @(d)

ⓐ LENGTH
1 = 1,0 m
2 = 2,0 m
4 = 4,0 m
10 = 10,0 m
20 = 20,0 m
30 = 30,0 m
50 = 50,0 m
100 = 100,0 m

ⓑ ACCURACY CLASS
100 = ±85 µm/m
50 = ±35 µm/m (up to 30 m)
10 = ±8 µm/m (up to 10 m)

ⓒ COVER STRIP
0 = not supplied
1 = supplied

ⓓ CUSTOM VERSION