

Type: **LSE-AU**  
 Article No.: **274096**  
 Sales text **Electronic analogue encoder 0–10VDC**

Basic unit

Visual status indication

Q1 = analog output

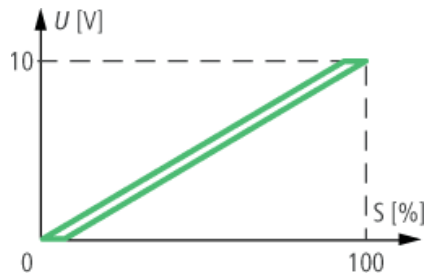
Q2 = diagnostics output

(the diagnostics output has a 0 V signal in the event of a fault.)

**Ordering information**

Output signal			0 – 10 V
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**Contact sequence**



**Colour of enclosure cover**



**General**

Standards			IEC/EN 60947 EN 61000-4
Climatic proofing			Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC 60068-2-30
Ambient temperature		°C	... 25...+70
Mounting position			As required
Protection type			IP66, IP67
Terminal capacity of screw terminal and Cage Clamp			
Solid		mm <sup>2</sup>	1 × (0.5 – 2.5)
Flexible with ferrules to DIN 46228		mm <sup>2</sup>	1 × (0.5 – 1.5)

<b>Power supply</b>			
Rated voltage	$U_e$	V DC	24 (-15%/+20%)
Rated operational current			
24 V	$I$	mA	24
<b>Contacts/switching capacity</b>			
Analog output Q1			
Output voltage		V DC	0 – 10
Fault scenario		V	0
Resolution		Steps	100
Step tolerance		Steps	1
Shunt resistor, resistive load			> 1000
Digital diagnostics output Q2 (switching to + pole PNP)			
Response threshold		V	approx. $U_e$
		mA	< 200
Fault scenario		V	0
Repetition accuracy		mm	0,02
<b>Mechanical variables</b>			
Contact temperature of roller head		°C	100
Mechanical shock resistance (half-sinusoidal shock, 20 ms)			
Basic unit		g	30
Operating frequency	Operations/h		3000
Hysteresis		mm	0.4
Contact sequence (contact closed open $Z_w$ = positive opening clearance)		mm	0.06
<b>Actuation</b>			
Mechanical			
Actuating force at beginning/end of stroke			
Basic units		N	3.5/8.0
LS(M)–XP		N	1.0/8.0
LS(M)–XL		N	1.0/8.0
LS(M)–XLA		N	1.0/8.0
Actuating torque of rotary drives		Nm	0,2
Max. operating speed with DIN cam			
Basic units for angle of actuation	= 0°/30°	m/s	1/0.5
LS(M)–XRL for angle of actuation	= 0°	m/s	1,5
LS(M)–XRLA for angle of actuation		m/s	1,5

	= 30°, L = 125 mm		
LS(M)–XRR for	L = 130 mm	m/s	1,5
LS(M)–XL for angle of actuation	= 30°/45°	m/s	1
LS(M)–XLA for angle of actuation	= 30°/45°	m/s	1
LS(M)–XP for angle of actuation	= 0°/30°	m/s	1/1

### Electromagnetic compatibility (EMC)

Electrostatic discharge (IEC/EN 61000–4–2, Level 3, ESD)			
Air discharge		kV	8
Contact discharge		kV	4
Electromagnetic fields (IEC/EN 61000–4–3, RFI)		V/m	10
Burst pulses (IEC/EN 61000–4–4, level 3)			
Supply cables		kV	2
Signal lines		kV	2
High–energy pulses (surge) (IEC/EN 61000–4–5)		kV	0.5
Immunity to line–conducted interference to (IEC/EN 61000–4–6)		V	10

### Notes

#### Notes

Cage Clamp is a registered trademark of Wago Kontakttechnik, 32423 Minden, Germany.

Accessories for the Cage Clamp terminals from Wago:

Jumper insert, grey, Wago article no. 264–402

Tightening torque of cover screws: 0.8 Nm ±0.2 Nm  
only with LS (insulated version)  
Fixing screws 2 x M4 30  
M<sub>A</sub> = 1.5 Nm

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