

TEMEX



- ▶ Robust and safe temperature meter for general mining applications
- ▶ Housing: Stainless steel
- ▶ Versions:
 - Standard version without evaluation electronics and local display
 - Standard version with evaluation electronics and local display
 - Remote version with evaluation electronics and local display
- ▶ Measuring system:
 - Quartz sensor, high-precision, measuring range - 20°C .. +70°C (± 0.2 K)
 - Semiconductor sensor, measuring range - 20°C .. +150°C (± 1.8% of end value)
- ▶ Electrical connection:
 - Terminals,
 - Fixed cable connection
 - Machaczek connector type ME2A10,
 - PROMOS connector type BN4160,
 - Hydrostar connector type SKK24,
 - Becker module and terminals or
 - Souriau connector series 845, size 2
- ▶ Power supply 8.5 VDC .. 13.5 VDC
- ▶ Output signals:
 - Maximum of two frequency outputs 5 .. 15 Hz or limit
 - Potential-free
 - TEMEX-*P*: only one frequency output 5 .. 15 Hz, not potential-free
- ▶ Marking according to 2014/34/EU:
I M1 Ex ia I Ma (DMT 03 ATEX E 062 X)

Ordering information TEMEX

10	Type of device			
	N	Without evaluation electronics and local display		
	E	With evaluation electronics and local display		
20	Electrical connection			
	B	With Becker module and terminals * ³		
	F	With fixed cable connection * ⁴		
	H	Hydrostar connector type SKK24		
	K	Terminals and cable glands * ³		
	M	Machaczek connector type ME2A10		
	P	PROMOS connector type BN 4160		
	S	Souriau connector series 845, size 2		
30	Construction			
	G	Standard version		
	A1	Remote version with Harting connector * ⁶		
	A2	Remote version with Machaczek connector		
	A3	Remote version with Hydrostar connector		
	A4	Remote version with Binder connector * ⁵		
40	Cable entry			
	A	axial (only TEMEX-N*)		
	S	sideways (only TEMEX-N*)		
	O	TEMEX-E*		
50	Measuring system			
	Q	Quartz sensor, high-precision		
	H	Semiconductor sensor		
60	Measuring range * ²			
	__	Temperature measuring range		
70	Length of sensor			
	__	Sensor length (30 mm .. 1000 mm)		
80	Special version * ¹			
	S	Special version, to be specified		

Complete order code:

TEMEX - **L** *¹

 *¹ Only necessary with deviations from order code pos. 10 to 70!

 ² Only necessary if ordering a TEMEX-N

 ³ Only TEMEX-E

 *⁴ Standard cable length 5 m

 *⁵ The following standard connection lengths are available:

 Part no. **UM2** (2 m), part no. **UM5** (5 m), part no. **UM10** (10 m) and part no. **UM20** (20 m)

 *⁶ Straight or angled coupling

Note!

The connection cable (max. 30 m) and the connectors of the remote version are not part of the package and have to be ordered separately!

Ordering examples:

1. TEMEX-NFGAQ-20+50L70

- Standard version without evaluation electronics and local display
- Electrical connection with fixed cable
- Axial cable entry
- Measuring with high-precision quartz sensor
- Temperature measuring range -20°C to +50°C
- Sensor length 70 mm

2. TEMEX-EPA2OHL1000

- Remote version with evaluation electronics and local display
- Connected by a Machaczek connector
- Electrical connection by a PROMOS connector
- Measuring with a semiconductor sensor
- Temperature measuring range programmable from -20°C to +150°C
- Sensor length 1000 mm

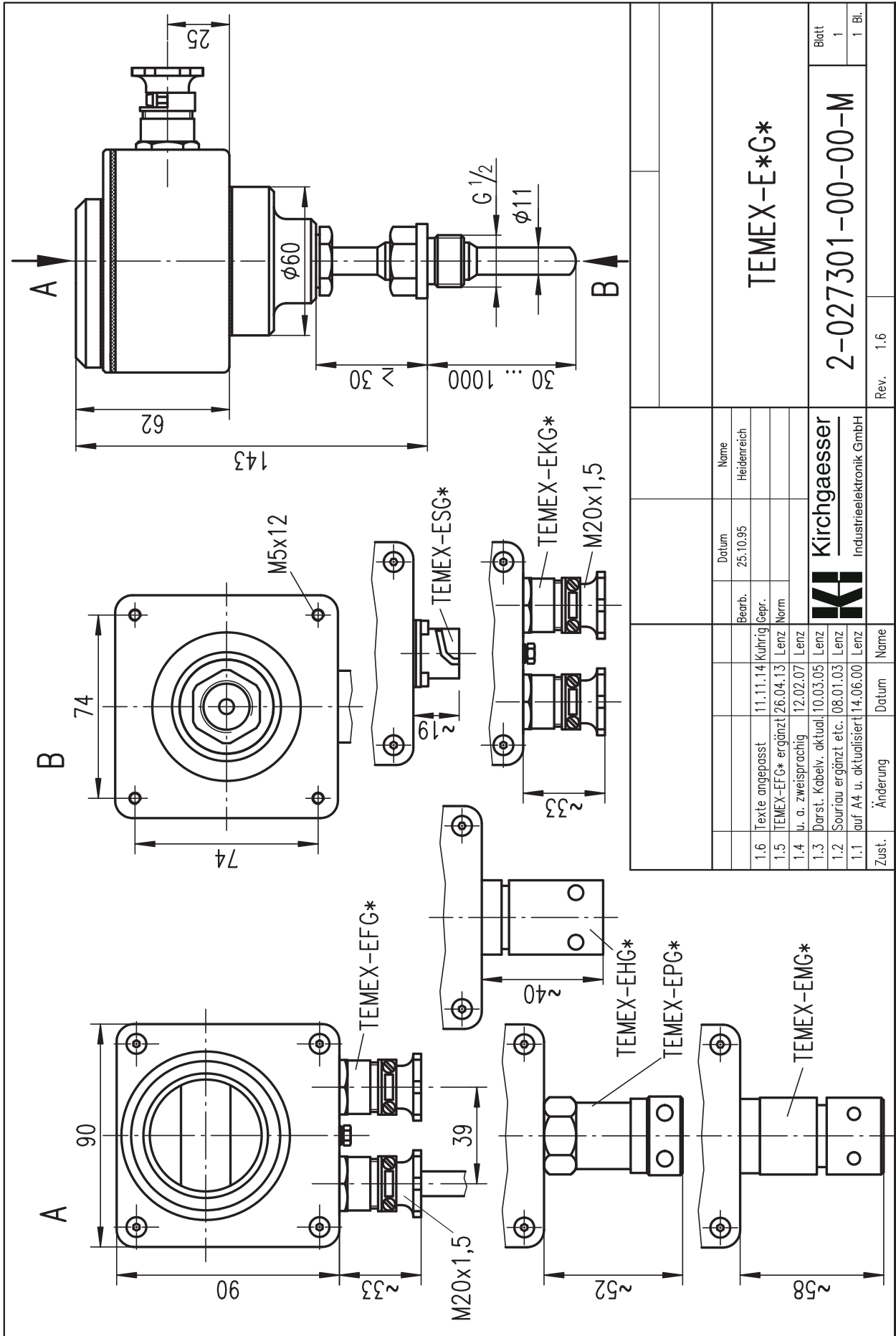
Technical data (general):

- Measuring principle:
Temperature-sensitive quartz or semiconductor sensor
- Measuring uncertainty
 - Quartz sensor: max. ± 0.2 K
 - Semiconductor sensor: max. $\pm 1.8\%$ of end value
- Material:
Stainless steel
- Weight:
Depending on version (TEMEX-E*G*: 1.5 kg)
- Protection according to EN 60529:
IP 65
- Type of protection according to EN 60079-0:
Ex ia I Ma
- Cable gland:
 - M20x1.5
 - Clamping range 8.0 - 11.5 mm
 - Tightening torque 2 Nm
- Nominal pressure:
Max. 100 bar
- Ambient temperature:
 $-20^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
- Process temperature:
 $-20^{\circ}\text{C} \leq T_p \leq +150^{\circ}\text{C}$

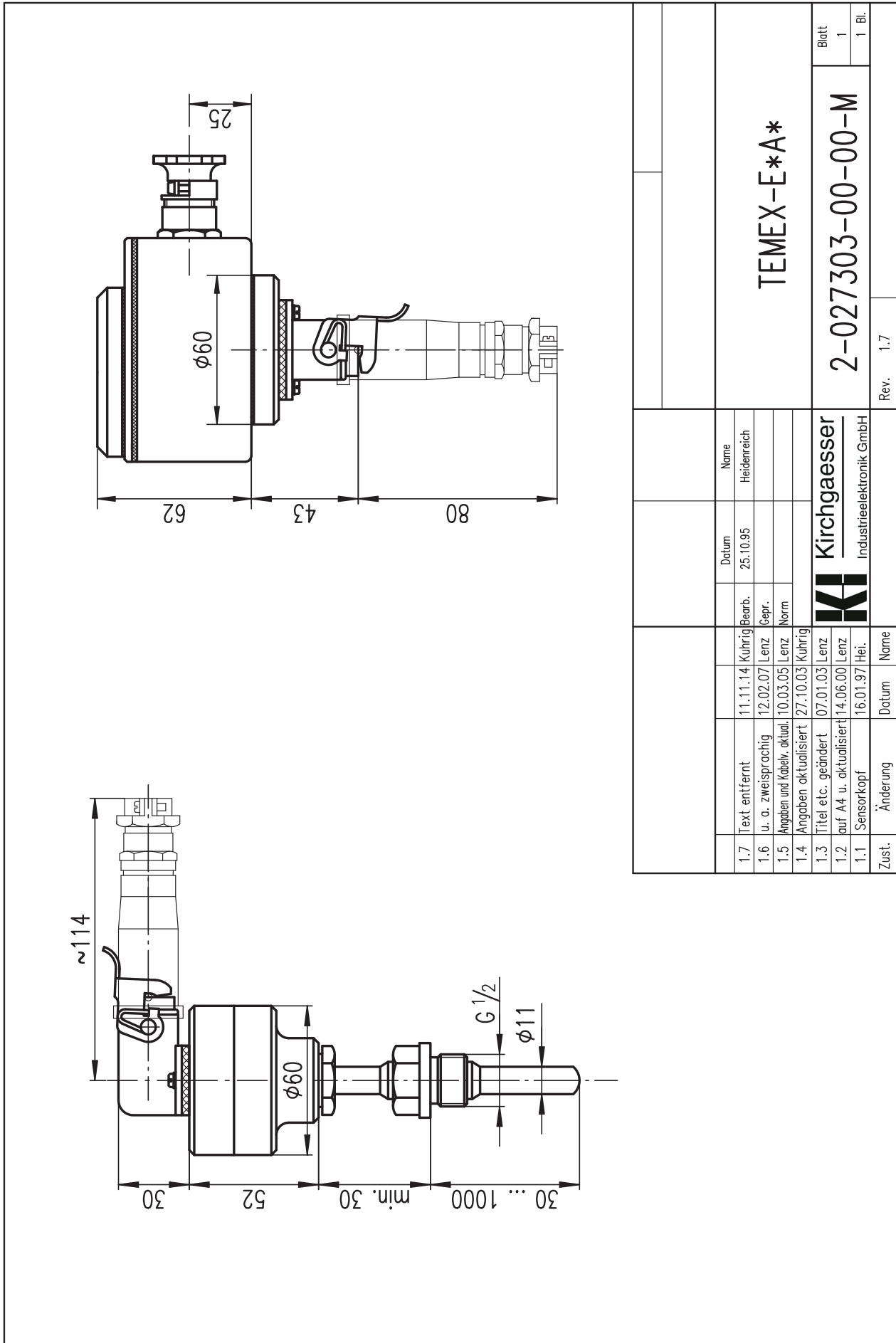
Technical data (electrical):

- Power supply:
 $8.5 \text{ VDC} \leq U_i \leq 13.5 \text{ VDC}$
- Current consumption
 - TEMEX-N*: 10 mA
 - TEMEX-E*: 30 mA
- Frequency output (except TEMEX-*P*)
 - Supply voltage: max. 30 VDC
 - Power consumption: max. 50 mW
- Frequency output (TEMEX-*P*):
Max. 13.5 VDC
- Outputsignal
 - TEMEX-E*: 5 .. 15 Hz or limit
 - TEMEX-N*: 5 .. 15 Hz only
- Internal inductances
 - Negligible (except TEMEX-*F*)
 - 0.7 $\mu\text{H}/\text{m}$ (TEMEX-*F*)
- Internal capacitances
 - Negligible (except TEMEX-*F*)
 - 110 pF/m (TEMEX-*F*)

Dimension sheets:

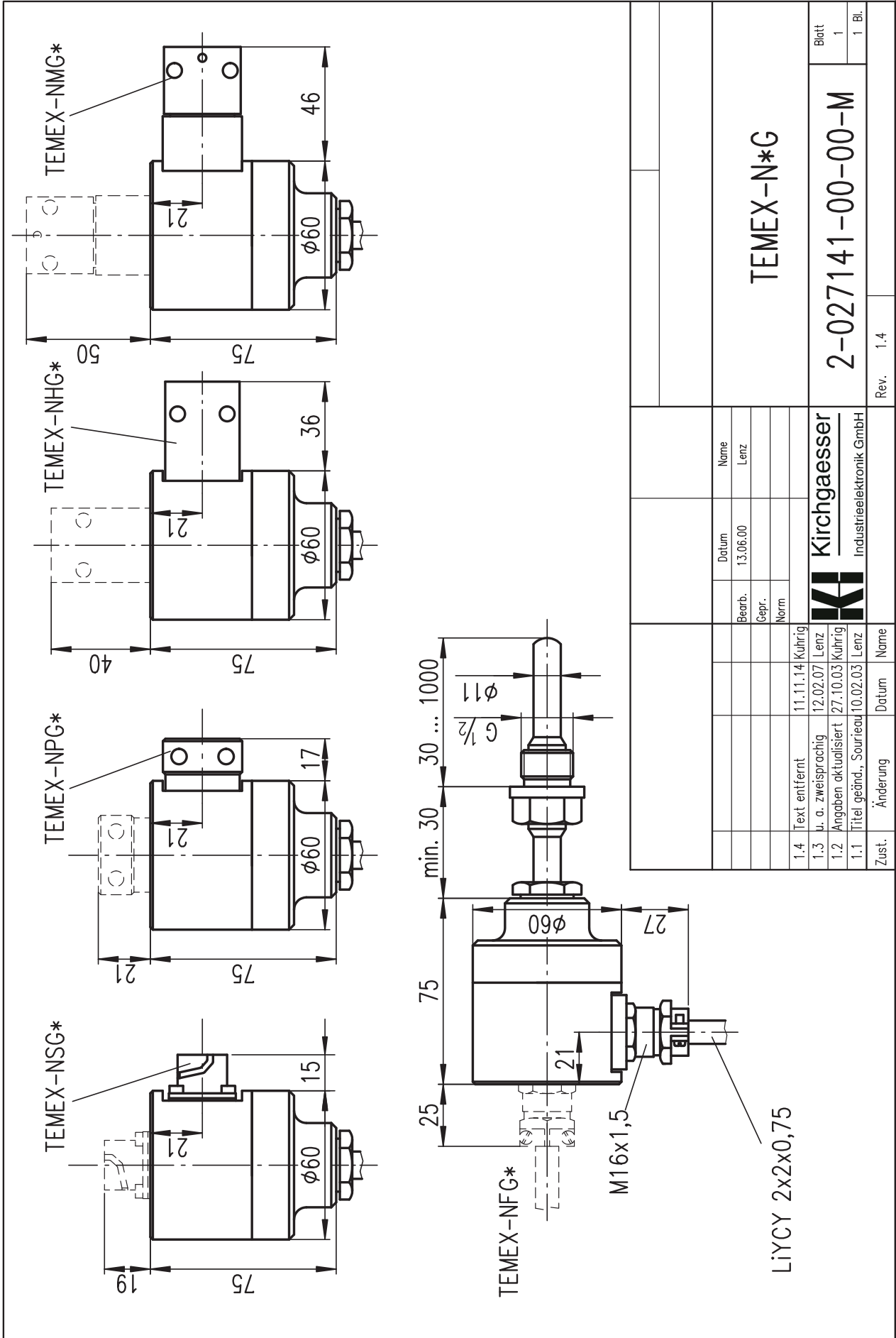


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Zust.		Änderung		Datum		Name	
1.1	Sensorkopf	16.01.97	Hei.			Kirchgaesser Industrieelektronik GmbH	
1.2	auf A4 u. aktualisiert	14.06.00	Lenz				
1.3	Titel etc. geändert	07.01.03	Lenz				
1.4	Angaben aktualisiert	27.10.03	Kuhrig				
1.5	Angaben und Kabelv. aktual.	10.03.05	Lenz				
1.6	u. a. zweisprachig	12.02.07	Lenz	Gep.			
1.7	Text entfernt	11.11.14	Kuhrig	Bearb.		Datum	
						Name	
						Heidenreich	
						25.10.95	
						TEMEX-E*A*	
						2-027303-00-00-M	
						Rev. 1.7	
						Blatt 1	
						1 Bl.	

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								TEMEX-N*G	
Bearb.	Datum	Name							
Gepf.	13.06.00	Lenz							
Norm									
			K		Kirchgaesser		2-027141-00-00-M		
			Industrietechnik GmbH				Rev. 1.4		
							Blatt 1		
							1 Bl.		

Zust.	Änderung	Datum	Name
1.4	Text entfernt	11.11.14	Kührig
1.3	u. a. zweisprachig	12.02.07	Lenz
1.2	Angaben aktualisiert	27.10.03	Kührig
1.1	Titel geändert, Souricou	10.02.03	Lenz

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