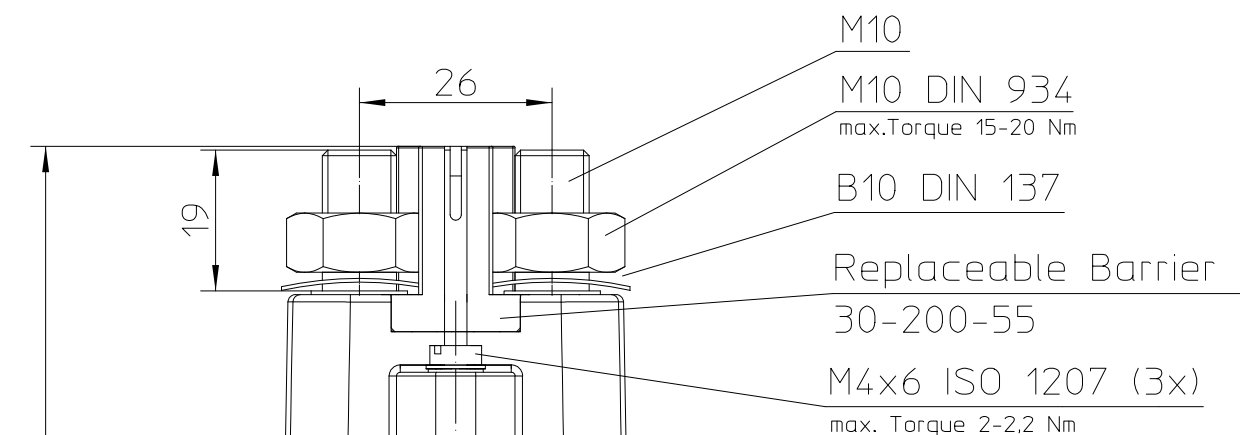
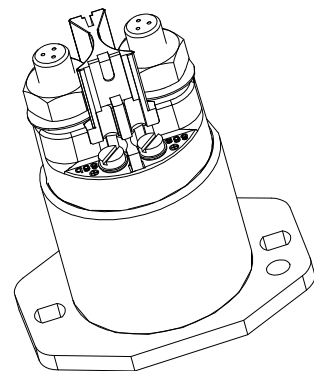
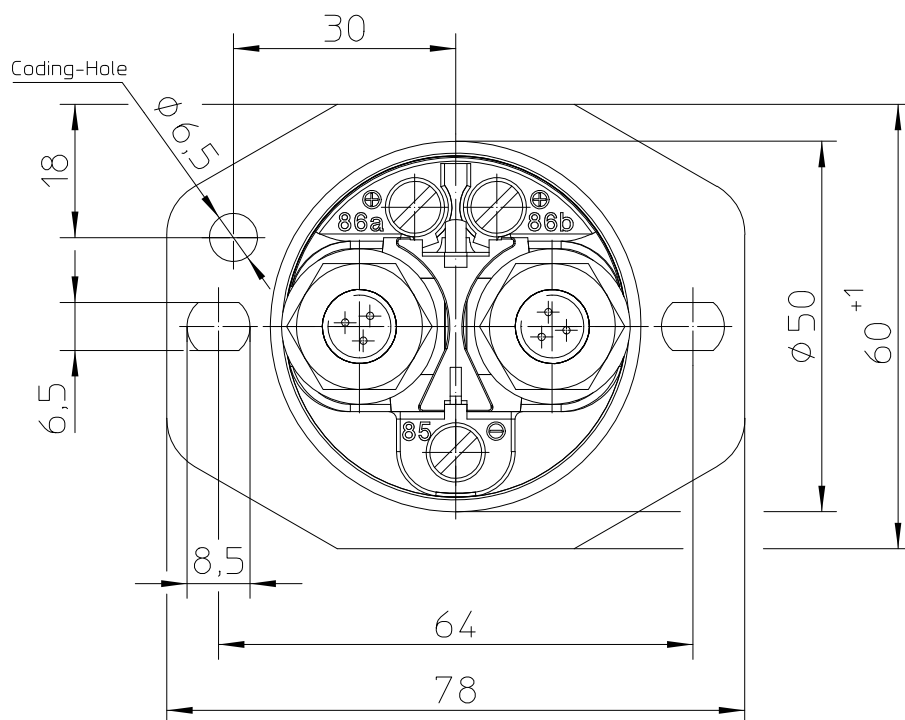
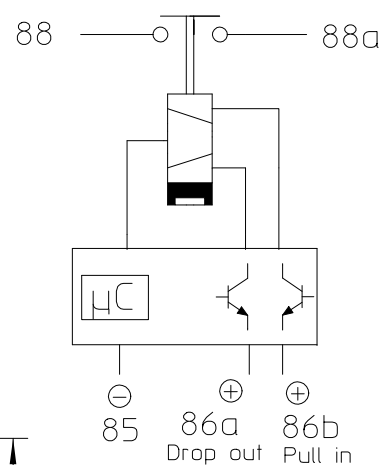


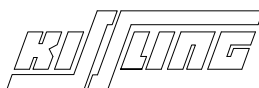
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CIRCUIT:



	Date	Name	mm	Scale
Create	05.04.2011	Kaise		1:1
Edited	27.11.2019	Mielk		
Check	29.11.2019	Kaise		
			General Tolerances DIN ISO 2768 cL	



Drawing No:

31-313-12-S

NSN:

Technical Data

The technical principle of this relay is a proved two coil device with a Pull In and Drop Out coil with permanent powerless magnetic holding. An impulse into the controlled coil switches the relay in to an On or Off position. The electronic function protects against incorrect actuation which therefore prevents overheating or damage to any component parts. When switching ON the electronics this creates an impulse to the pull in coil which then closes the main relay contacts. Whilst switching OFF the electronics this creates an impulse to the drop out coil which then opens the relays main contacts.

The minimum pick up impulse time is approximately 250 ms and continuous signals will not cause any damage. The electronic board integrates under voltage function that eliminates critical mechanic actuation, a suppression diode, coil, short circuit and polarity protection.

The geometric size and measurement are identical to those of a standard bi-stable 30 series relay which therefore offers the user an interchangeable solution.

ENVIRONMENTAL CHARACTERISTICS

TEMPERATURE RANGE.....-40°C TO +85°C (-40°F TO +185°F)
MAX. ALTITUDE RATING.....50 000 FT
SEAL.....IEC 529,2.EDITION 1989-IP67 (6 FT/1MIN.) AND IP6K9K
SHOCK G-LEVEL.....6G/11 MSEC
VIBRATION4G/50-2000 Hz

ELECTRICAL CHARACTERISTICS

MIN.INSULATION RESISTANCE,INITIAL.....100 MEGOHMS
AFTER LIVE OR ENVIRONMENTAL.....50 MEGOHMS
DIELECTRIC WITHSTANDING VOLTAGE.....1 050 VAC / 1 MIN
MAX.CONTACT DROP,INITIAL.....0,15 VDC
AFTER LIFE TEST.....0,175 VDC
OVERLOAD.....2400 AMP for 1 sec.; 600 AMP for 20 sec.
DUTY RATING.....300 AMP CONTINUOUS
QUIESCENT CURRENT.....APPROX 2mA

RATED CONTACT LOAD

MOTOR LOAD.....50 000 CYCLES
MECHANICAL LIFE.....100 000 CYCLES

ELECTRONICS AND OPERATING CHARACTERISTICS

VOLTAGE RANGE.....18-32 VDC
NOMINAL VOLTAGE.....24 VDC
PICK UP VOLTAGE MIN.....18 VDC FULL TEMP. RANGE
PICK UP CURRENT AT 24 VDC.....APPROX 2,9A FOR 50 MSEC
DROP OUT CURRENT AT 24 VDC.....APPROX 3,0A FOR 50 MSEC

CIRCUIT TIME

PICK UP INCL. BOOUNCE AND RUNNING TIME µC.....250 MSEC APPROX
DROP OUT INCL. RUNNING TIME µC.....250 MSEC APPROX

WEIGHT.....0,55 kg= 1.21 POUND MAX.

WIRE SECTION (AT NOMINAL LOAD).....MIN. 95mm²/0.147 sq. in./ AWG 0000

SUBJECT TO CHANGE

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Create	05.04.2011	Kaise		1:1		31-313-12-S
Edited	27.11.2019	Mielk	General Tolerances			
Check	29.11.2019	Kaise				