series

165 • IT65



ENVIROMENTAL SPECIFICATIONS		
Shock:	100 g, 6 ms (acc. to MIL STD 202F)	
Vibrations:	10 g, 5-2000 Hz (acc. to MIL STD 202F)	
Operating temperature range:	-20°C+70°C (-4°F +158°F)	
Storage temperature range:	-20°C +80°C (-4°F +176°F)	
	(98% R.H.without condensation)	
Protection:	IP65	
Options:	• Operating temperature range: -40°C +100°C (-40°F +212°F) • IP66 Protection shaft end (torque 2,5 Ncm and 3000 rpm max.)	

MEC	HANICAL SPECIFICATIONS
Dimensions:	see drawing
Shaft:	Ø 6, 8, 9.52, 10, 12 mm
Shaft loading (axial and radial):	100 N max.
Shaft rotational speed:	6000 rpm max.
Starting torque at 20°C:	≤ 1,5 Ncm (typical)
Moment of inertia:	~ 50 gcm <sup>2</sup>
Bearings life:	400x10 <sup>6</sup> rev. min.
	(10° rev. min. with 20 N shaft loading max)
Weight:	~ 0,3 kg (10,6 oz)

ELECTRICAL SPECIFICATIONS		
STD pulse rate: (other PPR upon request)	$\begin{array}{c} 2\text{-}4\text{-}5\text{-}6\text{-}10\text{-}12\text{-}15\text{-}16\text{-}18\text{-}20\text{-}24\text{-}25\text{-}30\text{-}35\text{-}36\text{-}39\\ 40\text{-}45\text{-}50\text{-}60\text{-}64\text{-}70\text{-}80\text{-}90\text{-}100\text{-}120\text{-}122\\ 125\text{-}127\text{-}142\text{-}150\text{-}180\text{-}200\text{-}216\text{-}236\text{-}240\\ 250\text{-}254\text{-}256\text{-}267\text{-}270\text{-}300\text{-}314\text{-}360\text{-}375\\ 400\text{-}410\text{-}433\text{-}435\text{-}471\text{-}500\text{-}512\text{-}600\text{-}625\\ 628\text{-}635\text{-}720\text{-}750\text{-}784\text{-}800\text{-}875\text{-}900\text{-}946\\ 1000\text{-}1024\text{-}1068\text{-}1099\text{-}1200\text{-}1250\text{-}1270\\ 1440\text{-}1500\text{-}1800\text{-}2000\text{-}2048\text{-}2250\text{-}2400\text{-}2500\\ 3000\text{-}3600\text{-}4000\text{-}4096\text{-}5000\text{-}6000\text{-}9000\text{-}10000\\ \end{array}$	
Power supply:	+5V±5%, +10V +30V,+5V +30V	
Output circuits:	NPN o.c., PNP o.c., Push-Pull, Line Driver, PP/LD	
Output current (per channel):	40 mA max.	
Output frequency:	100 kHz max.	
Input current:	70 mA max.	
Protection:	against inversion of polarity (except +5V version)	
	outputs are protected against short-circuit (except Line Driver version)	
Optoelectronic life:	100.000 hrs min.	
Option:	• Output frequency up to 300 kHz max.	

MA	TERIALS
Flange:	non corroding
Housing:	non corroding
Bearings:	ABEC 5
Shaft:	stainless steel, non-magnetic
Light source:	GaAl diodes



ACCESSORIES		
E7MLS:	7 pin MIL mating connector	
E10MLS:	10 pin MIL mating connector	
PAN/PGF:	flexible couplings	
LKM-386:	fixing clamps	

