series

**158 • 158S** 







158

ENVIRONMENTAL 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:	IP64	
Options:	• Operating temperature range: -40°C +100°C (-40°F, +212°F • IP65 Protection	

MECHANICAL SPECIFICATIONS		
Dimensions:	see drawing	
Shaft:	Ø 6, 8, 9.52, 10, 12 mm	
Shaft loading (axial and radial):	20 N max I58	
	40 N max I58S	
Shaft rotational speed:	6000 rpm max.	
Starting torque at 20°C:	≤ 1 Ncm (typical)	
Moment of inertia:	~15 gcm²	
Bearings life:	10° rev. min.	
Weight:	~ 0,3 kg (10,6 oz)	

ELECTRICAL SPECIFICATIONS		
STD pulse rate (other PPR upon request):	$\begin{array}{c} 2\text{-}4\text{-}5\text{-}6\text{-}10\text{-}12\text{-}15\text{-}16\text{-}18\text{-}20\text{-}24\text{-}25\text{-}30\text{-}35\text{-}36\text{-}39} \\ 40\text{-}45\text{-}50\text{-}60\text{-}64\text{-}70\text{-}80\text{-}90\text{-}100\text{-}120\text{-}122\text{-}} \\ 125\text{-}127\text{-}142\text{-}150\text{-}180\text{-}200\text{-}216\text{-}236\text{-}240} \\ 250\text{-}254\text{-}256\text{-}267\text{-}270\text{-}300\text{-}314\text{-}360\text{-}375} \\ 400\text{-}410\text{-}433\text{-}435\text{-}471\text{-}500\text{-}512\text{-}600\text{-}625} \\ 628\text{-}635\text{-}720\text{-}750\text{-}784\text{-}800\text{-}875\text{-}900\text{-}946} \\ 1000\text{-}1068\text{-}1099\text{-}1200\text{-}1250\text{-}1270\text{-}1440\text{-}1500} \\ 1800\text{-}2000\text{-}2250\text{-}2400\text{-}2500\text{-}3000\text{-}3600\text{-}4000} \\ 4096\text{-}5000\text{-}6000\text{-}9000\text{-}10000} \end{array}$	
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.	

MATERIALS

1585

	ACCESSORIES
E7MLS:	7 pin MIL mating connector
E10MLS:	10 pin MIL mating connector
T3475001:	7 pin TUCHEL mating connector
T3635000:	12 pin TUCHEL mating connector
EPFL 121:	12 pin CONNEI mating connector
PAN/PGF:	flexible couplings
LKM-386:	fixing clamps

non corroding

non corroding ABEC 5

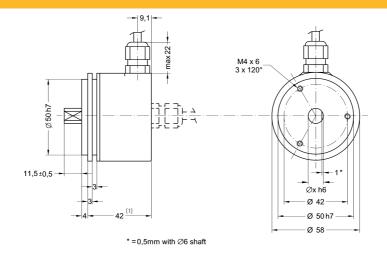
GaAl diodes

stainless steel, non-magnetic

Flange: Housing:

Bearings: Shaft:

Light source:



M4 x 6 3 x 120 -- 16±0,5 Ø 36f7 Ø 48 Ø 58

(1) Mechanical dimensions with connector output see page 64

\* = 0,5mm with  $\emptyset$ 6 shaft

**158S** 

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## XXXX - X - XXXX **SERIES** 158 - I58S **OUTPUT CIRCUITS** NPN o.c. N PNP o.c. Push-Pull Y Line Driver AD26LS31 or equiv. PP/LD universal circuit H PULSE RATE (PPR) See electrical specifications

OUTPUT SIGNALS CONFIGURATION

Bidirectional B

Bidirectional with index pulse Z

