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Passion for Sensors

Made BETTER by Baumer

OptoPulse EIL580P

The versatile programmable encoder



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Reducing inventory cost and shortening delivery time.



There are many benefits of the *OptoPulse* EIL580P programmable encoder and its multiple configuration options:

- Any resolution programmable from 1 to 65536 pulses per revolution
- Programmable pulse sequence
- Output stage HTL or TTL
- Reference pulse setting function
- Reference pulse 90° or 180°
- Universal voltage supply from 4.75 to 30 VDC
- Eletronic product label
- Convenient programming via handheld tool, PC software or software library



Additional benefits of the flexibility and efficiency of the *OptoPulse* modular encoder family:

- Cost-efficient realization of individualized, even high-resolution ppr
- Rapid setup by reference pulse setting function
- Quick, efficient exchange and retrofit
- Eliminating downtime
- Electronic product label, ensuring full traceability
- Less product variety, reducing inventory cost (e. g. spare parts)
- Enhanced flexibility, speeding up order processing and delivery time
- Simplified component management, reduced inventory and handling cost

OptoPulse EIL580P
Flexible, robust, precise.

- Robust mechanics with ShaftLock bearing feature
- Extraordinarily durable
- Optical sensing technology, up to 65536 pulses per revolution
- Operating temperature from –40 °C to +100 °C
- High protection up to IP 67
- Speed up to 12000 rpm
- Excellent price-performance ratio
- One-stop source for encoders and accessories





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Easy programming via handheld tool.

Thanks to a compact handheld programming tool, encoder configuration is done in seconds – even if the encoder is already integrated in the system. Handling the battery-operated stand-alone solution is child's play:



- Four user-assigned buttons for simple and quick programming
- Memory of several encoder configuration profiles
- Intuitive, fully menu-driven programming
- Backlit display
- Good readability under any ambient light condition
- Encoder diagnostics
- LED activity indicator

Convenient programming via PC software.

The convenient PC software is ideal for distributors or drive manufacturers who need to program several encoders in line. Simply select the desired configuration profile and just a mouseclick later it's all done:

- Efficient programming by automatic identification of the connected devices
- Easy, intuitive operation and programming
- Quick and efficient configuration by user-assigned buttons
- Encoder diagnostics with on-screen readout
- On-screen feedback of the programming process
- Perfect product documentation by individual product label print outs



Our software library provides decisive benefits:

Enhanced efficiency through automated product documentation and improved traceability:
Integration with your ERP system automatically defines all parameters in the production process and will allocate serial number and pertinent encoder configuration directly to the related production order.

Eliminating downtime:
Implemeted in the control or HMI software, the encoder configuration is updated directly in the process without manual intervention and production loss.

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Product overview *OptoPulse* EIL580P



EIL580P-SC



EIL580P-SY



EIL580P-B



EIL580P-T

	EIL580P-SC	EIL580P-SY	EIL580P-B	EIL580P-T
Sensing principle	Optical			
Size	ø 58 mm			
Power supply	4.75 ... 30 VDC			
Output stages	HTL/push-pull or TTL/RS422, programmable			
Shaft design	Solid shaft 10 mm Clamping flange	Solid shaft 6 mm Synchro flange	Blind hollow shaft ø 8...15 mm	Through-hollow shaft ø 8...15 mm
Connection	Radial, axial: Flange connector M23 or M12, with cable Tangential: cable outlet			
Pulses per revolution	1... 65536, programmable			
Protection	IP 67 with shaft seal, IP 65 without			
Operating temperature	–40 ... +100 °C			

Latest accessory highlights



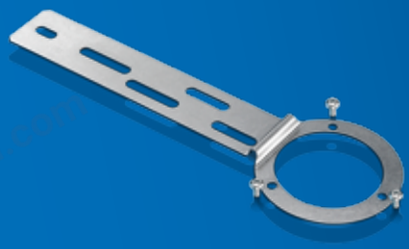
Varied cable outlet and connector options for any housing design and installation condition



Clip for easy mounting on top or underneath the fan guard with 8 mm grid



Optimally matching stator coupling



Torque support optionally cut to length for universal installation

Learn more about our *OptoPulse* EIL580 encoder series at
www.baumer.com/optopulse

You will encounter our complete portfolio of incremental and absolute encoders at
www.baumer.com/motion

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