Baumer
Passion for Sensors

Made BETTER by Baumer

OptoPulse® EIL580P

The versatile programmable encoder.

Reduced inventory cost and shorter delivery time.

There are many benefits of the *OptoPulse*® EIL580P programmable encoder and its multiple configuration options. Maximum availability and flexibility while cutting down on product variety.

User-configurable parameters:

- Any pulse number from von 1...65536
- Pulse sequence
- Output level HTL or TTL
- Set function for user-configurable reference signal
- Reference signal width 90° or 180°

Your benefits:

- Less product variants and resulting cost reduction, such as storage and spare parts
- Cutting down on storage, handling and purchasing cost
- Simplified component management
- Cost-efficient realisation of individual, even high-resolution pulse numbers
- Preventing downtime
- Electronic label for full traceability
- Quick setup by R-Set function for user-configurable reference signal
- Quick, cost-efficient exchange and retrofit

OptoPulse® EIL580P
Flexible, robust, precise

- Universal encoder with programmable parameters
- Outstanding durability
- Robust mechanical design with *ShaftLock* bearing concept
- 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

ShaftLock

For high shaft loading

IP 67
High protection

–40 °C
Low temperatures

Magnetic immunity

Shock and vibration proof

High speed

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
- Clear 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

Quick retooling and adjustment thanks to R-Set

User-configurable reference signal for minimized downtime

The R-Set input is a particularly convenient feature of each programmable encoder with M23 flange connector within the *OptoPulse*® EIL580P series.
R-Set will automatically set the reference signal (zero pulse) at the current shaft position. R-Set is run directly by motor or control system upon voltage application at PIN 7.

The reference signal is non-volatile and will be retained at the shaft position even after power off.
Setting the reference signal for retooling or during maintenance or adjusting work is quickly done without manual intervention which will keep downtime at a minimum.

Product overview *OptoPulse*® EIL580P

EIL580P-SC

EIL580P-SY

EIL580P-SQ

EIL580P-B

EIL580P-T

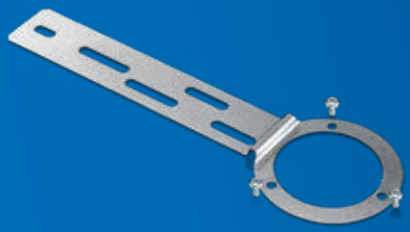
	EIL580P-SC	EIL580P-SY	EIL580P-SQ	EIL580P-B	EIL580P-T
Sensing method	Optical				
Size	58 mm				
Voltage supply	4.75...30 VDC				
Output stages	TTL/RS422 or HTL/push-pull, programmable				
Shaft type	Solid shaft ø10 mm Clamping flange	Solid shaft ø6 mm Synchro flange	Solid shaft ø10 mm Square flange	Blind hollow shaft ø8...15 mm	Through hollow shaft ø8...15 mm
Connection	Radial, axial: flange connector M23, 12-pin or M12, 8-pin; cable Tangential: cable outlet				
Pulse per revolution	1...65536, programmable				
Operating temperature	–40...+100 °C				
Protection	IP 67 with shaft seal, IP 65 without				
Shaft loading	≤40 N axial, ≤80 N radial				

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*® EIL580P 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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