

Series 86P30-1D5 Product Overview

Pneumatic pin packages, enclosed twin units with 32mm diameter cylinders

Models: **86P30-1D5....**

Application:

Accurate positioning, with high precision of rotation, of sheet metal parts in welding equipment and handling systems. At the end of the welding process, the pins are retracted from the pin holes. The component can thus be easily removed from the jig. The pin package can also be used for centering pin positions outside the piston rod axis.



86P30-1D5B8004 base model w/ sensing (w/o add-ons)

Features:

- · Compact, low weight design
- · High accuracy due to twin piston rod guide
- Lateral mounting areas
- Mounting base for centering pin incl. precision bore holes and grooves
- 1 inductive sensing module with LED display
- Twin guide for off-center pins
- Long body for 40mm stroke, short body 20mm stroke
- Long & short body are interchangeable in connecting

Key areas of application:

Automotive manufacturing, sheet processing industry, jig and general mechanical engineering.



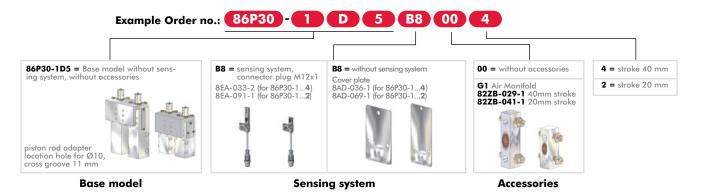
86P30-1D5B8G12 with central air connection

and sensing

Series 86P30-1D5 Technical Information

Model no.								Air
w/o sensing	with inductive sensing connector M12x1 w/ lead	Pushing force at 5 bar N [lbs]	Retraction force at 5 bar N [lbs]	Max. operating pressure bar [psi]	Piston Ø mm [in]	Stroke mm [in]	Weight Kg [lbs]	consumption per double stroke at 5 bar dm³ [ft³]
86P30-1D5L3004	86P30-1D5B8004	780 [175]	580 [130]	6 [87]	2x32 [1.26]	40 [1.57]	3,0 [6.60]	0,96 [0.03]
86P30-1D5L3002	86P30-1D5B8002	780 [175]	580 [130]	6 [87]	2x32 [1.26]	20 [0.79]	2,7 [5.94]	0,68 [0.02]
86P30-1D5L3G14	86P30-1D5B8G14	780 [175]	580 [130]	6 [87]	2x32 [1.26]	40 [1.57]	3,1 [6.82]	0,96 [0.03]
86P30-1D5L3G12	86P30-1D5B8G12	780 [175]	580 [130]	6 [87]	2x32 [1.26]	20 [0.79]	2,8 [6.16]	0,68 [0.02]

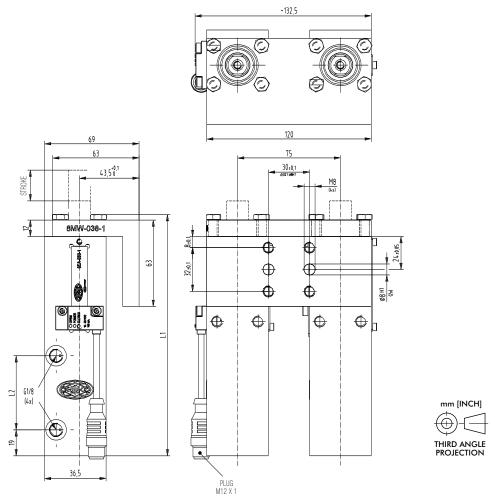
Order no. code for pin packages 86P30-1D5.....





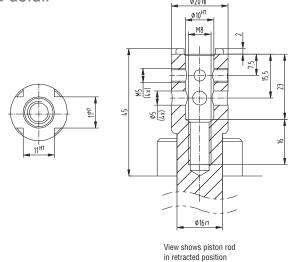
Series 86P30-1D5 Standard Pin Package Dimensions

86P30-1D5.....



Model no.	L1 [mm]	L1 [mm]	Stroke [mm]
86P30-1D5004	176	54	40
86P30-1D5002	141	34	20

86P30-1D5 Piston rod detail

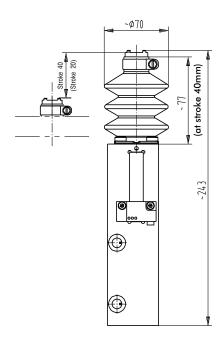


Series 86P30-1D5 Accessories

Specifications		Order no. for 86P30-1D5	
Bellows		82ZB-016-4	
Connector socket M12x1 straight, 5-pin	Connector socket & 5 m cable) Connector socket M12x1 straight, 5-pin		
Connector socket M12x1 angular 4-pin	M12 x 1	8EL-003-1	

Bellows 82ZB-016-4

Mounted on piston rod



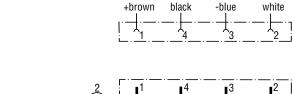
Wiring diagram of electrical sensing system

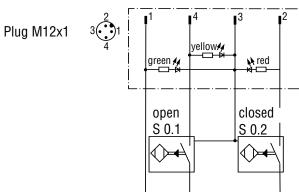
Sensing system immune to interference from d.c. arc welding and a.c. arc welding

Inductive design:

• **B8** Connector plug M12x1 w/ lead (just 1 sensing system required)

Pin assignment

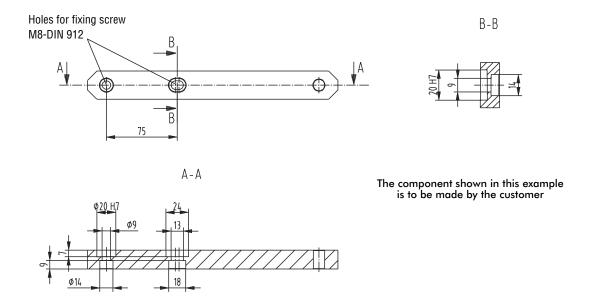




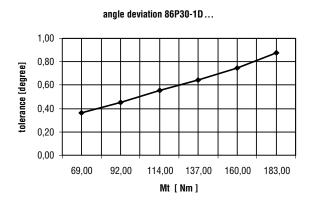


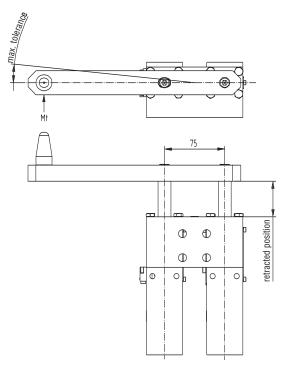
Series 86P30-1D5 Accessories

Example application of off-center centering pin of 86P30-1D5.....



Concept guidelines: angle deviation of off-center centering pins





Major spare parts for 86P30-1D5.....

Specifications	Order no. for 86P30-1D54	Order no. for 86P30-1D52		
End position sensing system B8 inductive connector plug M12x1 w/ lead	8EA-033-2	8EA-091-1		
Seal kit	86P3-1-00			