ULZ 40

Irreversible pneumatic retractable locating pin unit, single rod, Ø40 mm



Irreversible pneumatic retractable pin unit, single rod, typically used in welding applications to locate metal sheets in a definite position.

- Toggle-joint system to hold the position even in case of air loss
- Metal rod scraper
- Antirotation system
- Optical sensor
- Many rod end styles available
- Version with hand lever available (ULY)

IRREVERSIBLE

OPTICAL SENSOR

METAL SCRAPER

ANTI ROTATION

CHARACTERISTICS

Operating temperature	**5° ÷ 45° C**
Min./Max. operating pressure	**0,4 / 0,6 MPa**
Bore Ø	**40 mm**
Min. Pull force (0,5 MPa)	**200 N**
Max Push force (0,5 MPa)**	**3100 N**
Max. Torque (6 Nm)	**± 0,06 mm**
Max. Deflection (7,5 Nm)	**± 0,03 mm**
Weight	**5,7 Kg**
Pneumatic supply ports	**G 1/8**
Sensor	**electronic (optical)**
Supply voltage	**10 ÷ 30 Vdc**
IP code	**IP 65**

***Max. push force at end stroke position*

CODIFICATION KEY

UL	Z	40	040	A	E	K	0	
1	2	3	4	5	6	7	8	9

1 SERIES
UL = UNICLAMP locating pin unit

2 VERSION
Z = Pneumatic, with toggle-joint mechanism, single rod

3 SIZE
40 = Ø40 mm

4 STROKE
040 = 40 mm

5 ROD END STYLE
A = Rod for offset pins
B = Rod with profiled end
C = Rod with cross-profiled end inner Ø16 mm
D = Rod for offset pins with oversized dowel holes

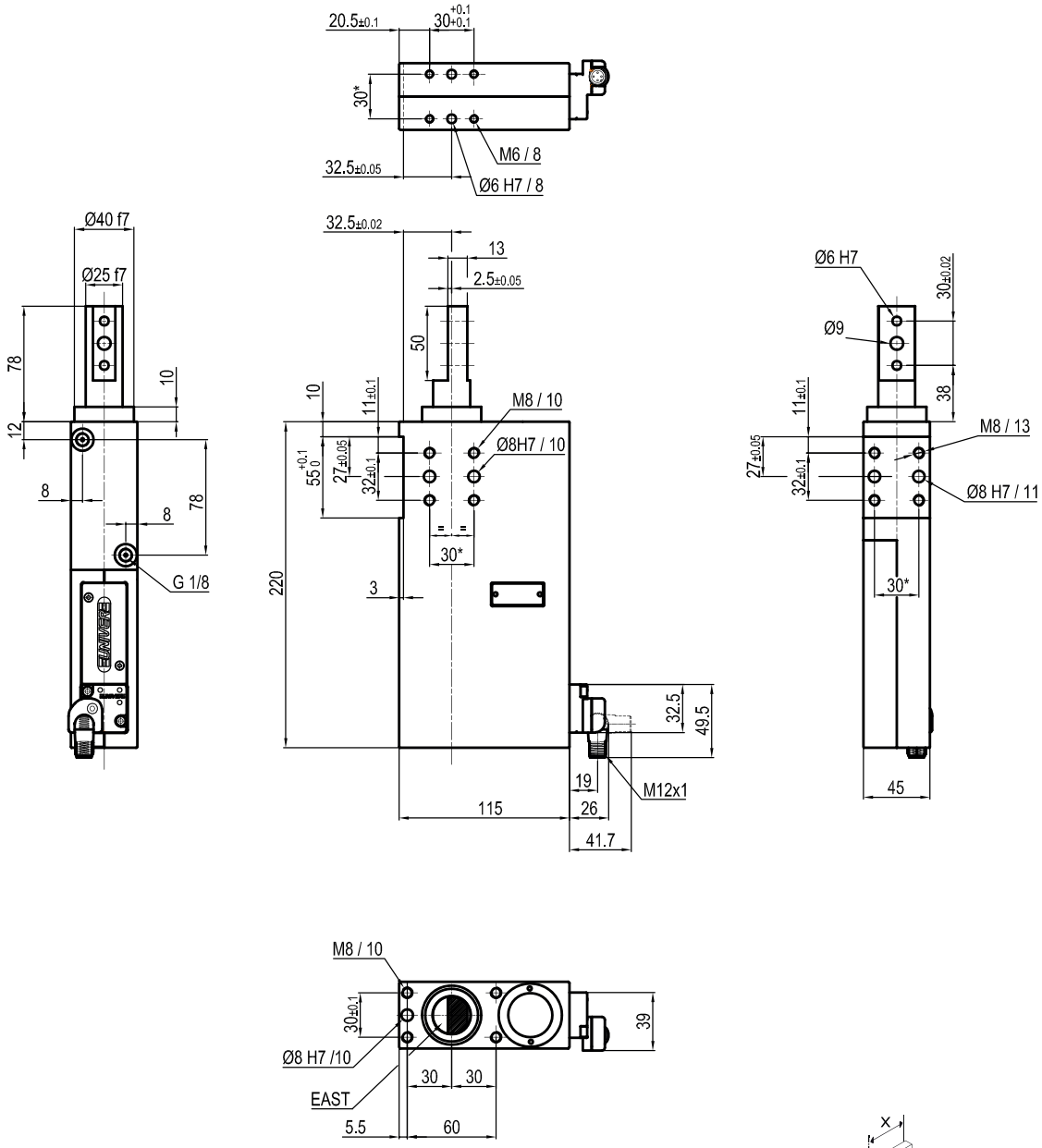
6 ROD ORIENTATION
X = Symmetrical
E* = East
O* = West
N* = North
S* = South
*only with **"A"** and **"D"** rod style

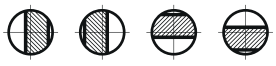
7 SENSOR
N = No sensor (with protection plate)
K = Electronic sensor PNP, M12 (DF-K)
J = Electronic sensor NPN, optical (DF-J)
Y = Electronic sensor PNP, M12 (DF-Y) white LED

8 PRODUCT REVISION
Assigned by UNIVER

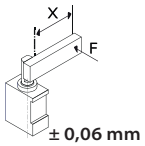
9 ATEX
X = ATEX option
See ATEX Catalogue for types and versions

A | Rod for offset pins



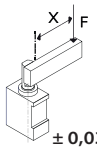


**TOLERANCE BETWEEN DOWELS ± 0,02 BETWEEN SCREW HOLES ± 0,1*



± 0,06 mm

Max. Torque
6 Nm
X = 100 mm



± 0,03 mm

Max. deflection
moment 7,5 Nm
X = 100 mm

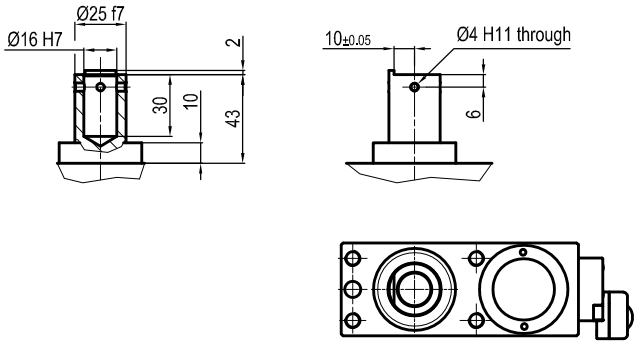
Sensors



Electronic (optical)

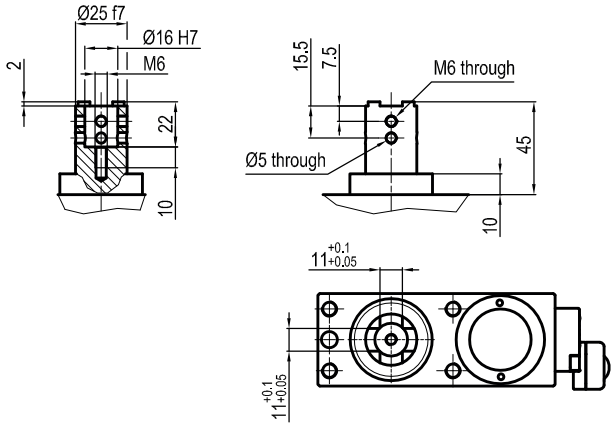
DF-K PNP M12
DF-J NPN M12
DF-Y PNP M12 White LED

B | Rod with profiled end



C | Rod with cross-profiled end

Inner Ø16 mm



D | Rod for offset pins

Oversized dowel holes

Max. deflection moment 7,5 Nm

